EVERHART MUSEUM

OF

NATURAL HISTORY SCIENCE AND ART

SCRANTON, PENNSYLVANIA.

FLORA

of

Northeastern Pennsylvania

By ALFRED TWINING

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Twining, Alfred
Flora of northeastern Penn.

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ALFRED TWINING
IN NAY AUG PARK, SCRANTON PA., OCTOBER, 1915

The Check List of the Flora of this section of Pennsylvania is respectfully and affectionately dedicated to my long time friend, the late

Dr. Isaiah F. Everhart,

founder of the Everhart Museum of Natural History, Science and Art, erected in Nay Aug Park and presented to the City of Scranton, Pa.

FLORA

of

NORTHEASTERN PENNSYLVANIA

By ALFRED TWINING

Published by

Everhart Museum of Natural History,
Science and Art

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Scranton, Pa., Feb., 1917.

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PREFACE

In accordance with the expressed wish of the late Doctor Everhart, as a supplement to the collection of woods and seeds of Lackawanna County, which he was making at the time he was stricken with his last illness, labeled and now on exhibition in the Museum, I presented my Herbarium of over 2,000 specimens to the institution which bears its founder's name. Incorporated in the Herbarium is a practically complete collection of the Flora of this part of the state, particularly of Lackawanna and Luzerne Counties.

In further carrying out the wishes of Doctor Everhart I have prepared this check list of the Flora of the above region for publication.

A preliminary list of the plants in the Lackawanna and Wyoming Valleys, of which Prof. W. R. Dudley, then of Cornell University, was the author, was published under the auspices of the Lackawanna Institute of History and Science, in 1887. This volume named 769 species as reported and classified. In 1892, Professor Dudley, then connected with the Leland Stanford University of California, and Prof. Charles O. Thurston of the Wyoming Seminary Scientific Department combined their personal notes, observations and collections with those of other students of local botanical research and issued a very complete catalog of "The Flowering Plants and vascular Cryptogams found in and near the Lackawanna and Wyoming Valleys." This volume contained the names of 107 orders and 974 species, to which there were later addenda of 88 species,—a total of 1,062. Of this number several have since been considered doubtful, while others have become exterminated through forest fires or advance of cultivated areas and are not represented in this check list.

The check list herewith presented contains the names of 115 orders and 1,534 species. The specimens have very largely

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been collected by myself, mounted and preserved in the "Alfred Twining Herbarium" in the Everhart Museum. With few exceptions every plant named in this Flora is represented in the above Herbarium. There is also in this Herbarium a collection of Filices and fern allies,—an almost complete representation of the ferns of the United States, and many foreign ferns with rare and odd varieties and forms. The Orchidaceae, Liliaceae and Violaceae of the eastern half of the United States are largely represented as well as the Cyperaceae and Gramineae. The classifications of the more important genera have been verified by such expert authority as Prof. Charles S. Sargent, the late Dr. Thomas C. Porter, the late Dr. Thomas Morong, the late Prof. James A. Graves, and Prof. E. Brainerd.

Outdoor recreation being a necessity, as well as a great pleasure, I began late in 1900 the collection of the flora over practically the same range of territory covered by Professors Dudley and Thurston, as well as amateur collectors reported in the 1892 Flora. In preparing the appended list of plants I have followed the classification and nomenclature of the seventh edition of Gray's Manual. The plants recorded in this Flora which are not represented in Gray's Manual are marked with a star and the proper authority is indicated.

In the revision, preparation for publication, proof-reading and effort to have the check list as nearly correct and authoritative as possible, I have had the kindly and generous assistance of Prof. R. N. Davis, Curator of the Everhart Museum, whose love of the woods and plant life first led me to the study and collection of our local flora.

ALFRED TWINING.

INTRODUCTION

A flora of 1,200 species in a limited area is considered rich; when 334 species are added to this number there is cause for wonder to botanists not familiar with the topography of the country from which the local flora has been collected and preserved in the Herbarium in the Everhart Museum. The heart of the Northern Alleghenies, where the tributaries of the Susquehanna, Lehigh and Delaware Rivers have their rise, is a beautiful country with a variety of soil and varying altitudes. We have many lakes, creeks, tangled swamps and bogs, dry barrens, rocks, valleys, plains and mountain peaks, with drift heaps of the glacial age. This varied topography affords local characteristic types as well as the plants common throughout the Appalachian region. On Bald Mount, Elk Hills, Penobscot, Pocono and Tilbury Knobs, and the Pocono Plateau and marshes we have rare plants of the glacial age. We have Atlantic slope species whose western limits of distribution are within our border as well as Southern and Southwestern species which extend no farther north or northeast. Over fifty-five northern species, mainly heaths and sedges, are found here which do not extend south of our territory.

Among the more notable species included in our flora, and represented in the "Alfred Twining Herbarium," are the Arceuthobium pusillum, Potentilla tridentata, Linnaea borealis, Vaccinium canadense, Opuntia vulgaris, Picea mariana, Menyanthes trifoliata, Liatris scariosa, Ledum latifolium, Rhodora canadense, Andromeda polifolia, Kalmia glauca, Rhododendron viscosum Gaylussacia frondosa, Chiogenes hispidula, Orontium aquaticum, Melanthium latifolium, Amianthium muscaetoxicum, Arenaria groenlandica, Cunila mariana, Pinus inops, Sedum roseum, Asplenium montanum, and Lycopodium selago.

While the leguminous species are rare on the Pocono they are abundant in the two valleys. Quite a number of plants which predominate in the country immediately outside the Lackawanna

Valley are quite rare or entirely lacking in the valley. Among these are teasel, hepatica, dicentra, claytonia, bloodroot, barberry, walking fern and some of the violets. A number of Southern and Western species have of late years been introduced in this region through the railroads. Weeds that were rare in Lackawanna County are now becoming pests.

Prof. C. S. Sargent, Director of the famous Arnold Arboretum, a world authority on trees and shrubs, after three botanical visits to Scranton, expressed the opinion that there are at least forty species or forms of the Crataegus (hawthorn) in the Lackawanna Valley. Professor Sargent has classified twenty-seven of these, giving the handsomest of our local species the name of Crataegus twiningi. This species, an Intricatae, is described at length in the proceedings of the Academy of Natural Sciences of Philadelphia, Vol. LXII, Part I, 1910, pages 230 and 231. Professor Sargent adds to the description: "This species is named for its discoverer, Mr. Alfred Twining of Scranton, who first called attention to the richness of Lackawanna County in forms of Crataegus."

The following interesting points and altitudes from which the greater part of the Flora in this check list was gathered are: The beautiful double domes of the Elk Mountains (south dome 2,575 feet, north dome 2,700 feet), exceeded only a few feet by the Blue Knob, the highest mountain in the State; Bald Mount, 2,385; Clarks Summit, 1,239; Elmhurst, 1,397; Moscow, 1,555; Gouldsboro, 1,890; Tobyhanna, 1,929; Ararat Summit, 2,023; Uniondale, 1,693; Carbondale, 1,079; Archbald, 965; Pittston, 573; Kingston, 550; Crystal Lake, 1,755; Campbell's Ledge (Dial Rock), 1,302; Penobscot Knob, 2,220; Pocono Knob, 2,225; Ararat Peak, 2,600; Sugar Loaf, 2,450; Mount Anonymous, 1,596; Scrub Oak, 2,092; Big Shiney, 2,320; Moosic Mountain Range, from 2,000 to 2,120.

ALFRED TWINING.

Scranton, Pa.,
Feb. 1, 1917.

DIVISION I. PTERIDOPHYTA

(Ferns and Fern Allies)

POLYPODIACEAE (Fern Family)

POLYPODIUM L. (Polypody)

1 P. VULGARE L. (Polypody.) Common on rocks.

2 P. VULGARE L., VAR. CRISTATUM Moore. Susquehanna. Rare.

PHEGOPTERIS Fee. (Beech Fern)

3 P. POLYPODIOIDES Fee. (Long Beech Fern.) Frequent in Abingtons.

4 P. HEXAGONOPTERA Fee. (Broad Beech Fern.) Elk Mountain, Spring Brook. West Mountain near Continental mine, *Mrs. William Thornton.*

5 P. DRYOPTERIS Fee. (Oak Fern.) Gravel Pond, Lily Lake.

ADIANTUM L. (Maidenhair)

6 A. PEDATUM L. Frequent.

PTERIS L. (Brake or Bracken)

7 P. AQUILINA L. (Common Brake.) Common.

8 P. AQUILINA, VAR. PSEUDOCAUDATA Clute. Spring Brook.

PELLAEA Link. (Cliff Brake)

9 P. ATROPURPUREA Link. Campbell's Ledge, cliff near Laurel Run Station.

CRYPTOGRAMMA R. Br. (Rock Brake)

10 C. STELLERI Prantl. Paupack gorge near Hawley, *Dr. L. W. Ross.*

WOODWARDIA Sm. (Chain Fern)

11 W. VIRGINICA Sm. Susquehanna, *J. A. Graves.* Rare.

ASPLENIUM L. (Spleenwort)

12 A. TRICHOMANES L. Frequent on rocks.

13 A. PLATYNEURON Oakes. Frequent.

14 A. PLATYNEURON, VAR. SERRATUM Miller. Tunkhannock.

15 A. MONTANUM Willd. Bald Mount cliff. Rare.

16 A. ANGUSTIFOLIUM Michx. Davidson's farm in Greenfield Township. *Mrs. Davidson.* This is the only station known within our limits.

17 A. ACROSTICHOIDES Sw. Spring Brook, Davidson farm, Greenfield township.

18 A. FILIX-FEMINA Bernh. (Lady Fern.) Big Birdseye.

CAMPTOSORUS Link. (Walking Leaf)

19 C. RHIZOPHYLLUS Link. Lake Scranton gorge, Elk Mountain, Campbell's Ledge. Not rare in Abingtons.

POLYSTICHUM Roth.

20 P. ACROSTICHOIDES Schott. (Christmas Fern.) Common.
21 P. ACROSTICHOIDES, FORM RAMOSA Clute. Rocky Glen, near Factoryville.*
22 P. ACROSTICHOIDES, VAR. INCISUM Gray. Birdseye, Spring Brook.
23 P. ACROSTICHOIDES, VAR. TRUNCATUM. Found and named by *Prof. James A. Graves* at Susquehanna, Pa.*
24 P. BRAUNII Fee. Rocky Glen, in southeastern part of Sullivan County, adjoining Luzerne. Reported by *J. P. C. Griffith* in 1878.

ASPIDIUM Sw. (Shield Fern or Wood Fern)

25 A. THELYPTERIS Sw. Marshy places. Common.
26 A. SIMULATUM Davenp. Monroe County.
27 A. NOVEBORACENSE Sw. Rich woods.
28 A. MARGINALE Sw. Frequent.
29 A. GOLDIANUM Hook. Sugarloaf Mountain. *Mrs. C. P. Davidson,* on farm, Greenfield Township, Lackawanna County.
30 A. BOOTTII Tuckerm. Susquehanna.
31 A. CRISTATUM Sw. Atherton's Pond, Hawley, Paupack, Lehigh Pond.
32 A. CRISTATUM, FORM MARGINALE Dav. Orson, on O. and W. railroad. (See Clute's Fern Collector's Guide, page 44.)*
33 A. SPINULOSUM Sw. Type form at Spring Brook.
34 A. SPINULOSUM, VAR. INTERMEDIUM Eaton. Common.
35 A. SPINULOSUM, VAR. DILATATUM Hook. Sugarloaf Mountain.

CYSTOPTERIS Bernh. (Bladder Fern)

36 C. BULBIFERA Bernh. Spring Brook, Moosic, Waverly, Susquehanna. Rocky Glen, near Factoryville, *Anna Wilcox.*
37 C. FRAGILIS Bernh. Common on shaded cliffs.

WOODSIA R. Br.

38 W. ILVENSIS R. Br. Elk Mountain, Bald Mountain.
39 W. OBTUSA Torr. Campbell's Ledge.

DICKSONIA L' Her. (Hay-scented Fern)

40 D. PUNCTILOBULA Gray. Common.
41 D. PUNCTILOBULA, VAR. FURCATA Clute. Spring Brook, Moosic.*

ONOCLEA L. (Sensitive Fern)

42 O. SENSIBILIS L. Common.
43 O. SENSIBILIS, VAR. OBTUSILOBATA Torr. Lehigh Pond, Gouldsboro, Moosic Lake glen.
44 O. STRUTHIOPTERIS Hoffm. Near Taylor, Dalton, Fleetville, Uniondale.

SCHIZAEACEAE (Curly Grass Family)

LYGODIUM Sw. (Climbing Fern)

45 L. PALMATUM Sw. Near Vandling toward Carbondale east of street car line. The only station reported in Lackawanna County, *C. H. Scharar.* Naomi Pines, *Prof. R. N. Davis.*

OSMUNDACEAE (Flowering Ferns)

OSMUNDA L.

46 O. REGALIS L. (Royal Fern.) Not rare.
47 O. CLAYTONIANA L. (Interrupted Fern.) Common.
48 O. CINNAMOMEA L. (Cinnamon Fern.) Common.
49 O. CINNAMOMEA, VAR. FRONDOSA Gray. Eddy Creek. Rare.

OPHIOGLOSSACEAE (Adder Tongue)

OPHIOGLOSSUM L.

50 O. VULGATUM L. *Mrs. C. P. Davidson,* farm in Greenfield Township, Lackawanna County. Long Pond, Luzerne County. Rare.

BOTRYCHIUM (Moonwort)

51 B. SIMPLEX Hitch. Naomi Pines. Rare.
52 B. LANCEOLATUM, VAR. ANGUSTISEGMENTUM Pease and Moore. Stillwater, Lake Scranton gorge. Rare.
53 B. RAMOSUM Aschers. Stillwater. Rare.
54 B. OBLIQUUM Muhl. Birdseye, Spring Brook. Common.
55 B. OBLIQUUM, VAR. DISSECTUM Clute. Waverly, Birdseye, not rare along O. and W. railroad.
56 B. VIRGINIANUM Sw. (Rattlesnake Fern.) Common.

EQUISETACEAE

EQUISETUM L. (Horsetail)

57 E. ARVENSE L. Common.
58 E. ARVENSE FORM DECUMBENS W. N. Clute. Factoryville along railroad tracks. Common. (See Clute's Ferns and Fern Allies.) Railroad embankments.*
59 E. ARVENSE FORM DIFFUSUM Clute. La Plume. Common along railroad embankments.*
60 E. SYLVATICUM L. Orson. Kingston, Rocky Glen.
61 E. FLUVIATILE L. Wyoming, Pocono. Not common.
62 E. HYEMALE L. (Scouring Rush.) Wyoming, Spring Brook. Along creek near Fleetville.

LYCOPODIACEAE

LYCOPODIUM L. (Club Moss)

63 L. SELAGO L. Delaware Water Gap. Rare.
64 L. LUCIDULUM Michx. Lake Scranton woods. Frequent.
65 L. INUNDATUM L. Spring Brook, Moscow.
66 L. INUNDATUM, VAR. BIGELOVII Tuck. Moosic Lake.
67 L. ANNOTINUM L. Moscow. Rare.
68 L. ANNOTINUM, VAR. ACRIFOLIUM. Reported by *Prof. J. W. Harshberger* on the Pocono Plateau July 25, 1904. *Rhodora,* June, 1915.*
69 L. CLAVATUM L. Frequent.
70 L. OBSCURUM L. Common.

71 L. OBSCURUM, VAR. DENDROIDEUM Michx. Common.
72 L. COMPLANATUM L. Frequent.
73 L. TRISTACHYUM Pursh. Starlight.

SELAGINELLACEAE

SELAGINELLA Beauv.

74 S. RUPESTRIS Spring. Bald Mount, Campbell's Ledge.
75 S. APUS Spring. Hanover Township.

ISOETES L. (Quillwort)

76 I. ECHINOSPORA Dur. Carmalt Lake, Susquehanna County.
77 I. ENGELMANNI A. Br. River road to Hallstead, Susquehanna.

DIVISION II. SPERMATOPHYTA

TAXACEAE (Yew Family)

TAXUS L.

78 T. CANADENSIS Marsh. (Ground Hemlock.) Not rare.

PINACEAE (Pine Family)

PINUS L.

79 P. STROBUS L. (White Pine.) Frequent.
80 P. RIGIDA Mill. (Pitch Pine.) Common.
81 P. VIRGINIANA Mill. (Jersey or Scrub Pine.) Barren hills in Wyoming Valley, back of Plymouth, Buttonwood.
82 P. RESINOSA Ait. (Red Pine.) Rare. One tree at Wyoming Monument. *Prof. Dudley* reports it along cliffs of Susquehanna river. *Prof. Thurston* reported a tree at Campbell's Ledge.

LARIX Adans. (Larch)

83 L. LARICINA Koch. (Tamarack.) Atherton's Pond, Bigelow Pond, Lehigh Pond.

PICEA (Spruce)

84 P. RUBRA Dietr. (Red Spruce.) Abundant on the Pocono Plateau.
85 P. MARIANA B. S. P. (Black Spruce.) Pocono swamps.

ABIES Hill. (Fir)

86 A. BALSAMEA Mill. (Balsam Fir.) Pocono swamps, swamp near Honesdale.

TSUGA Carr. (Hemlock)

87 T. CANADENSIS Carr. Common.

THUJA L. (Arbor Vitae)

88 T. OCCIDENTALIS L. Rare as an escape. Nicholson.

JUNIPERUS L. (Juniper)

89 J. COMMUNIS L. Stroudsburg, Delaware Water Gap.

90 J. VIRGINIANA L. (Red Cedar.) One tree along road from Dunmore to Throop, Campbell's Ledge, Waverly. Not common.

TYPHACEAE (Cat-Tail Family)

TYPHA L.

91 T. LATIFOLIA L. (Common Cat-Tail.) Common.

SPARGANIACEAE (Bur-Reed Family)

SPARGANIUM L.

92 S. EURYCARPUM Engelm. (Broad-Fruited Bur-Reed.) Kingston pond holes.

93 S. AMERICANUM, VAR. ANDROCLADUM Fernald and Eames. Starlight.

94 S. ANGUSTIFOLIUM Michx. (Narrow-Leaved Bur-Reed.) Frequent.

95 S. SIMPLEX Huds. (Simple-Stemmed Bur-Reed.) Common.

NAJADACEAE (Pondweed Family)

POTAMOGETON L. (Pondweed)

96 P. NATANS L. Common in ponds. Hunlock's Creek.

97 P. OAKESIANUS Robbins. Lake Winola.

98 P. EPIHYDRUS Raf. Tobyhanna, outlet of Lehigh Pond.

99 P. AMERICANUS C. & S. (Long-Leaved Pondweed.) Pocono Plateau, *Dr. J. W. Harshberger.*

100 P. AMPLIFOLIUS Tuckerm. Lake Winola.

101 P. HETEROPHYLLUS Schreb. Lake Winola.

102 P. PERFOLIATUS L. Susquehanna.

103 P. OBTUSIFOLIUS Mertens and Koch. Howell's Pond, Wayne County.

104 P. PUSILLUS L. Stevenson's Pond, Waverly, Crooked Lake, Lake Winola.

105 P. LATERALIS Morong. Mount Pocono.

106 P. VASEYI Robbins. Pond near base of Campbell's Ledge.

107 P. FOLIOSUS Raf. Factoryville.

108 P. HYBRIDUS Michx. Monroe County, *Prof. Porter.*

109 P. DIMORPHUS Raf. Preston Park.

110 P. ROBBINSII Oakes. Gravel Pond.

ZANNICHELLIA L. (Horned Pondweed)

111 Z. PALUSTRIS L. Birdseye, Spring near Lake Scranton.

NAJAS L. (Naiad)

112 N. FLEXILIS L. Lake Winola, Lake Sheridan.

JUNCAGINACEAE (Arrow-Grass Family)

SCHEUCHZERIA L.

113 S. PALUSTRIS L. Tobyhanna, Ararat Marsh.

ALISMACEAE (Water-Plantain Family)

SAGITTARIA L. (Arrow-head)

114 S. LATIFOLIA Willd. Kingston.
115 S. ENGELMANNIANA J. G. Sm. Howell's Pond.
116 S. HETEROPHYLLA Pursh. Kingston.
117 S. HETEROPHYLLA, VAR. ANGUSTIFOLIA Engelm. White Haven.
118 S. GRAMINEA Michx. Lake Minnetaka, Long Pond.

ALISMA L. (Water Plantain)

119 A. PLANTAGO-AQUATICA L. Not rare.

HYDROCHARITACEAE (Frog's Bit Family)

ELODEA Michx. (Water-Weed)

120 E. CANADENSIS Michx. Not uncommon.

VALLISNERIA L. (Eel Grass)

121 V. SPIRALIS L. Lake Winola.

LIMNOBIUM Richard. (American Frog's Bit)

122 L. SPONGIA Richard. Howell's Pond, Wayne County; Starlight.

GRAMINEAE (Grass Family)

ANDROPOGON L. (Beard Grass)

123 A. SCOPARIUS Michx. Common in dry soil. Mountain Park.
124 A. FURCATUS Muhl. Common on mountains. Plymouth.

SORGHASTRUM Nash.

125 S. NUTANS Nash. Fairview.

DIGITARIA Scop. (Finger Grass)

126 D. HUMIFUSA Pers. Common.
127 D. SANGUINALIS Scop. (Crab Grass.) Common.

PASPALUM L.

128 P. SETACEUM Michx. Taylor.

PANICUM L. (Panic Grass)

129 P. CAPILLARE L. (Old-Witch Grass.) Common.
130 P. MILIACEUM L. (European Millet.) Nay Aug Park.
131 P. DICHOTOMIFLORUM Michx. (Spreading Panicum.) Pocono Plateau, *Dr. J. W. Harshberger.*
132 P. VIRGATUM L. (Switch Grass.) Common along rivers.
133 P. AGROSTOIDES Spreng. Susquehanna River, Pittston.
134 P. DEPAUPERATUM Muhl. Frequent.
135 P. DICHOTOMUM L. Campbell's Ledge, Susquehanna.
136 P. BARBULATUM Michx. Gouldsboro.
137 P. BOREALE Nash. (Northern Panicum.) Pocono Summit, *Prof. Porter.*

138 P. COLUMBIANUM Scribn. North of Pocono Manor, Monroe County.
139 P. SPHAEROCARPON Ell. Stroudsburg.
140 P. XANTHOPHYSUM Gray. Bald Mount, Elk Mountain.
141 P. SCOPARIUM Lam. Susquehanna, *Prof. Graves.*
142 P. CLANDESTINUM L. Susquehanna.
143 P. LATIFOLIUM L. Occasional.

ECHINOCHLOA Beauv.

144 E. CRUSGALLI Beauv. (Barnyard Grass.) Common.

SETARIA Beauv. (Bristly Foxtail Grass)

145 S. GLAUCA Beauv. Hawley.
146 S. VIRIDIS Beauv. Susquehanna, *Prof. Graves.*
147 S. ITALICA Beauv. (German Millet.) Susquehanna, *Prof. Graves.*

CENCHRUS L. (Hedgehog Grass)

148 C. TRIBULOIDES L. (Sandbur.) Linden Street, O. and W. Yard, Scranton.

ZIZANIA L. (Water or Indian Rice)

149 Z. PALUSTRIS L. Mount Pleasant Fish Hatchery.

LEERSIA Sw. (Cut-Grass or White Grass)

150 L. VIRGINICA Willd. Campbell's Ledge.
151 L. ORYZOIDES Sw. Frequent.

PHALARIS L. (Canary Grass)

152 P. CANARIENSIS L. O and W. Yard, Scranton.
153 P. ARUNDINACEAE L. Mountain ponds.

ANTHOXANTHUM L. (Sweet Vernal Grass)

154 A. ODORATUM L. Common.

MILIUM L. (Millet Grass)

155 M. EFFUSUM L. Occasional.

ORYZOPSIS Michx. (Mountain Rice)

156 O. PUNGENS Hitchc. Bald Mount.
157 O. ASPERIFOLIA Michx. Moosic Lake.
158 O. RACEMOSA Ricker. Mocanaqua.

ARISTIDA L. (Triple-Awned Grass)

159 A. DICHOTOMA Michx. (Poverty Grass.) Sandy soil.
160 A. PURPURASCENS Poir. Campbell's Ledge.

MUHLENBERGIA Schreb.

161 M. SOBOLIFERA Trin. Taylor ledges.
162 M. TENUIFLORA BSP. Rocky woods.
163 M. SYLVATICA Torr. Taylor.
164 M. MEXICANA Trin. Frequent.
165 M. RACEMOSA BSP. Mountain tops.
166 M. SCHREBERI J. F. Gmel. (Nimble Will.) Fairview.

BRACHYELYTRUM Beauv.

167 B. ERECTUM Beauv. Moosic Lake.

PHLEUM L. (Timothy, Herd's Grass)

168 P. PRATENSE L. Common.

ALOPECURUS L. (Foxtail Grass)

169 A. GENICULATUS L. Wyoming Swamp.

SPOROBOLUS R. Br. (Rush Grass)

170 S. VAGINIFLORUS Wood. Sterile fields.

AGROSTIS L. (Bent Grass)

171 A. ALBA L. Frequent.
172 A. ALBA, VAR. VULGARIS Thurb. (Red Top.) Common.
173 A. HYEMALIS BSP. (Hair Grass.) Pocono, Ararat.
174 A. PERENNANS Tuckerm. (Thin Grass.) Frequent in woods.
175 A. PERENNANS, VAR. ELATA Hitchc. Clarks Summit.

CALAMAGROSTIS Adans. (Reed Bent Grass)

176 C. PORTERI Gray. Naomi Pines, Moosic Lake.
177 C. CANADENSIS Beauv. (Blue-Joint Grass.) Frequent.
178 C. CINNOIDES Barton. Moosic Lake.

CINNA L. (Wood Reed Grass)

179 C. ARUNDINACEA L. Low woods.
180 C. LATIFOLIA Griseb. Not uncommon.

HOLCUS L. (Velvet Grass)

181 H. LANATUS L. Common.

SPHENOPHOLIS Scribn.

182 S. NITIDA Scribn. Campbell's Ledge.
183 S. PALUSTRIS Scribn. Susquehanna.

KOELERIA Pers.

184 K. CRISTATA Pers. Campbell's Ledge.

DESCHAMPSIA Beauv.

185 D. FLEXUOSA Trin. (Common Hair Grass.) Frequent on dry banks in woods.
186 D. CAESPITOSA Beauv. Monroe County, *Prof. Porter.*

AVENA L. (Oat)

187 A. SATIVA L. (Common Oat.) Spontaneous but not persistent.

ARRHENATHERUM Beauv. (Oat Grass)

188 A. ELATIUS Beauv. Susquehanna.

DANTHONIA DC. (Wild Oat Grass)

189 D. SPICATA Beauv. Common.
190 D. COMPRESSA Aust. Moosic Lake, Nay Aug.

ELEUSINE Gaertn. (Goose Grass, Yard Grass)

191 E. INDICA Gaertn. Pine Brook, Linden Street.

TRIDENS R. & S.

192 T. FLAVUS Hitchc. (Tall Red Top.) Luzerne County, *Prof. Porter.*

ERAGROSTIS Beauv.

193 E. HYPNOIDES BSP. Plymouth.

194 E. CAPILLARIS Nees. Kingston.

195 E. FRANKII Steud. (Frank's Eragrostis.) Monroe County, *Prof. Porter.*

196 E. PILOSA Beauv. Susquehanna.

197 E. MEGASTACHYA Link. Forty Fort.

DACTYLIS L. (Orchard Grass)

198 D. GLOMERATA L. Common.

POA L. (Meadow Grass, Spear Grass)

199 P. ANNUA L. (Low Spear Grass.) Frequent.

200 P. COMPRESSA L. (Canada Blue Grass, Wire Grass.) Dry places, Mountain tops.

201 P. TRIFLORA Gilib. (Fowl Meadow Grass.) Susquehanna.

202 P. PRATENSIS L. (June Grass, Spear Grass, Kentucky Blue Grass.) Common.

203 P. DEBILIS Torr. Naomi Pines.

204 P. AUTUMNALIS Muhl. Indian Rock. Monroe County, *Prof. Porter.*

GLYCERIA R. Br. (Manna Grass)

205 G. TORREYANA Hitchc. Lake Henry.

206 G. OBTUSA Trin. Tobyhanna.

207 G. CANADENSIS Trin. (Rattlesnake Grass.) Frequent in ponds or marshes.

208 G. LAXA Scribn. (Northern Meadow Grass.) Pocono Plateau, *Dr. J. W. Harshberger.*

209 G. NERVATA Trin. (Fowl Meadow Grass.) Lake Henry.

210 G. GRANDIS Wats. (Reed Meadow Grass.) Lake Henry.

211 G. PALLIDA Trin. Tobyhanna.

212 G. FLUITANS R. Br. Long Pond near Tobyhanna.

213 G. BOREALIS Batchelder. (Northern Manna Grass.) Pocono Plateau, *Prof. Porter.*

FESTUCA L. (Fescue Grass)

214 F. OCTOFLORA Walt. Mocanaqua.

215 F. OVINA L. (Sheep's Fescue.) Susquehanna.

216 F. ELATIOR L. (Taller or Meadow Fescue.) Common.

217 F. NUTANS Spreng. Elk Mountain.

BROMUS L. (Brome Grass)

218 B. SECALINUS L. (Cheat or Chess.) Common.

219 B. RACEMOSUS L. Campbell's Ledge.

220 B. CILIATUS L. River woods.

221 B. PURGANS L. Near Mehoopany, Wyoming County.

222 B. KALMII Gray. Campbell's Ledge.

LOLIUM L. (Darnel)

223 L. PERENNE L. (Common Darnel or Rye Grass.) Not uncommon.

AGROPYRON Gaertn.

224 A. REPENS Beauv. (Couch or Quick Grass.) Common.
225 A. BIFLORUM R. and S. Bald Mount.
226 A. CANINUM Beauv. (Awned Wheat Grass.) Northeastern Pennsylvania, *Prof. Porter.*

HORDEUM L. (Barley)

227 H. JUBATUM L. (Squirrel-Tail Grass.) Lake Ariel, Clarks Summit, Lackawanna Yards, Scranton.

ELYMUS L. (Wild Rye)

228 E. VIRGINICUS L. Frequent.
229 E. CANADENSIS L. Campbell's Ledge.
230 E. CANADENSIS, VAR. GLAUCIFOLIUS Gray. Susquehanna.
231 E. STRIATUS Willd. Campbell's Ledge.

HYSTRIX Moench. (Bottle-Brush Grass)

232 H. PATULA Moench. Moist woods.

TRITICUM

233 T. SATIVUM Lam. (Winter Wheat.) Spontaneous but not persistent.*

SECALE

234 S. CEREALE L. (Rye.) Spontaneous but not persistent.*

CYPERACEAE (Sedge Family)

CYPERUS L. (Galingale)

235 C. DIANDRUS Torr. Tobyhanna, Little Birdseye.
236 C. ARISTATUS Rottb. Susquehanna.
237 C. ESCULENTUS L. Kingston.
238 C. FERAX Rich. Susquehanna.
239 C. STRIGOSUS L. Big Birdseye.
240 C. OVULARIS Torr. Wyoming Swamp, Susquehanna.
241 C. FILICULMIS Vahl. Duryea, near river.

DULCHIUM Pers.

242 D. ARUNDINACEUM Britton. Wyoming Swamp.

ELEOCHARIS R. Br. (Spike Rush)

243 E. OLIVACEA Torr. Susquehanna.
244 E. OVATA R. and S. Little Birdseye, Susquehanna.
245 E. PALUSTRIS R. and S. Wyoming Swamp.
246 E. ACICULARIS R. and S. Mud Pond.

STENOPHYLLUS Raf.

247 S. CAPILLARIS Britton. Coxton.

SCIRPUS L. (Bulrush or Club Rush)

248 S. SUBTERMINALIS Torr. Susquehanna, *Prof. Graves.*
249 S. DEBILIS Pursh. Starlight.
250 S. AMERICANUS Pers. Lake Winola.
251 S. TORREYI Olney. Lake Winola.
252 S. VALIDUS Vahl. (Great Bulrush.) Common. Kingston.
253 S. SYLVATICUS L. Wilkes-Barre.
254 S. ATROVIRENS Muhl. Susquehanna.
255 S. POLYPHILLUS Vahl. Tobyhanna, Lake Winola.
256 S. LINEATUS Michx. Susquehanna.
257 S. CYPERINUS Kunth. (Wool Grass.) Lehigh Pond.

ERIOPHORUM L. (Cotton Grass)

258 E. CALLITRIX Cham. (Hare's Tail.) Lehigh Pond, Atherton's Pond.
259 E. GRACILE Roth. Pocono Station.
260 E. ANGUSTIFOLIUM Roth. Lehigh Pond.
261 E. VIRIDI-CARINATUM Fernald. Saylor's Lake, Monroe County.
262 E. VIRGINICUM L. Atherton's Pond near Dalton.

RYNCHOSPORA Vahl (Beak Rush)

263 R. CYMOSA Ell. Starlight.
264 R. ALBA Vahl. Mud Pond near Elmhurst.
265 R. GLOMERATA Vahl. Wyoming.

SCLERIA Bergius. (Nut Rush)

266 S. TRIGLOMERATA Michx. Penobscot Knob, *Prof. Dudley.* Rare.
267 S. PAUCIFLORA Muhl. East of Fairview.
268 S. RETICULARIS, VAR. PUBESCENS Britton. Monroe Co., *Prof. Porter.*

CAREX L. (Sedge)

269 C. SCOPARIA Schkuhr. Frequent on mountains.
270 C. TRIBULOIDES Wahlenb. Susquehanna.
271 C. TRIBULOIDES, VAR. REDUCTA Bailey. Gouldsboro, *Dudley.*
272 C. ALBOLUTESCENS Schwein. Near Tannersville, *Dr. T. C. Porter.*
273 C. MIRABILIS Dewey. Peckville, *H. D. Dunn.*
274 C. STRAMINEA Willd. Susquehanna.
275 C. SILICEA Olney. Susquehanna.
276 C. ALATA Torr. Between Pocono Summit and Mount Pocono, *Dudley.* Rare.
277 C. FOENEA Willd. Campbell's Ledge.
278 C. FOENEA, VAR. PERPLEXA Bailey. Gouldsboro.
279 C. STELLULATA, VAR. CEPHALANTHA Fernald. Lily Lake.
280 C. STERILIS Willd. Susquehanna.
281 C. CANESCENS L. Atherton's Pond.
282 C. BRUNNESCENS Poir. Lehigh Pond.
283 C. BROMOIDES Schkuhr. Susquehanna.
284 C. DEWEYANA Schwein. Susquehanna.
285 C. TRISPERMA Dewey. Susquehanna.
286 C. TENELLA Schkuhr. Susquehanna.
287 C. ROSEA Schkuhr. Susquehanna.

288 C. ROSEA, VAR. RADIATA Dewey. Susquehanna.
289 C. RETROFLEXA Muhl. Susquehanna.
290 C. MUHLENBERGII Schkuhr. Birdseye.
291 C. CEPHALOPHORA Muhl. Susquehanna.
292 C. SPARGANIOIDES Muhl. Penobscot, *Prof. Dudley.*
293 C. VULPINOIDEA Michx. O. and W. Yard, Scranton.
294 C. SETACEA, VAR. AMBIGUA Fernald. Monroe County, *Dr. T. C. Porter.*
295 C. DIANDRA Schrank. Lehigh Pond.
296 C. STIPATA Muhl. Bebee's Swamp, Susquehanna.
297 C. CRINITA Lam. Mud Pond, Elmhurst.
298 C. CRINITA, VAR. MINOR Boott. Wayne and Monroe, *Dr. T. C. Porter.*
299 C. CRINITA, VAR. GYNANDRA S. and T. Susquehanna.
300 C. TORTA Boott. Hawley.
301 C. GOODENOWII J. Gay. Delaware Water Gap, *Dr. T. C. Porter.*
302 C. STRICTA Lam. Susquehanna.
303 C. STRICTA, VAR. ANGUSTATA Bailey. Lehigh Pond.
304 C. STRICTA, VAR. DECORA Bailey. Susquehanna, Lily Lake.
305 C. PAUCIFLORA Lightf. Atherton's Pond. Rare.
306 C. LEPTALEA Wahlenb. Susquehanna.
307 C. TRICEPS Michx. Campbell's Ledge.
308 C. VIRESCENS Muhl. Archbald.
309 C. DAVISII Schwein. and Torrey. Pike County, *Dr. T. C. Porter.*
310 C. GRACILLIMA Schwein. Moscow, Birdseye.
311 C. AESTIVALIS M. A. Curtis. Tobyhanna.
312 C. UMBELLATA. Schkuhr. Peckville, *H. D. Dunn.*
313 C. DEFLEXA Hornem. Pocono, *Dr. Porter.*
314 C. COMMUNIS Bailey. Susquehanna.
315 C. NOVAE-ANGLIAE Schwein. Foot of Long Pond, Monroe County.
316 C. PENNSYLVANICA Lam. Nicholson.
317 C. PUBESCENS Muhl. Susquehanna.
318 C. TETANICA Schkuhr. Monroe County, *Dr. T. C. Porter.*
319 C. POLYMORPHA Muhl. Pocono, *Porter.*
320 C. PALLESCENS L. Susquehanna.
321 C. PAUPERCULA *Michx.*, VAR. IRRIGUA Fernald. Lehigh Pond. Rare.
322 C. LIMOSA L. Atherton's Pond.
323 C. PRASINA Wahlenb. Susquehanna.
324 C. EBURNEA Boott. Campbell's Ledge.
325 C. PEDUNCULATA Muhl. Susquehanna.
326 C. PLANTAGINEA Lam. La Plume. Common.
327 C. PLATYPHYLLA, Carey. Monroe County, *Dr. T. C. Porter.*
328 C. LAXICULMIS Schwein. Susquehanna.
329 C. DIGITALIS Willd. Susquehanna.
330 C. LAXIFLORA Lam. Susquehanna, Birdseye.
331 C. LAXIFLORA, VAR. PATULIFOLIA Carey. Monroe County, *Dr. T. C. Porter.*
332 C. LAXIFLORA, VAR. BLANDA Boott. Pike County. *Dr. T. C. Porter.*
333 C. HITCHCOCKIANA Dewey. West of Dundaff, *Porter.* Rare.
334 C. CONOIDEA Schkuhr. Monroe County. *Dr. T. C. Porter.*
335 C. GRISEA Wahlenb. Susquehanna.
336 C. GRANULARIS Muhl. Susquehanna.

337 C. FLAVA L. Susquehanna, *J. A. Graves.*
338 C. LONGIROSTRIS Torr. Near Coxton, *Prof. Dudley.*
339 C. ARCTATA Boott. Pocono, *Prof. Porter.*
340 C. DEBILIS Michx. Starlight, Susquehanna.
341 C. DEBILIS, VAR. INTERJECTA Bailey. Monroe County, *Dr. T. C. Porter.*
342 C. SCABRATA Schwein. Susquehanna.
343 C. FILIFORMIS L. Atherton's Pond.
344 C. VESTITA Willd. Glen Summit.
345 C. OLIGOSPERMA Michx. Monroe County, *Dr. Porter.*
346 C. TRICHOCARPA Muhl. Susquehanna.
347 C. RIPARIA W. Curtis. Moscow.
348 C. TYPHINOIDES Schwein. Monroe County, *Dr. T. C. Porter.*
349 C. PSEUDO-CYPERUS L. Susquehanna.
350 C. COMOSA Boott. Wyoming Swamp, Susquehanna.
351 C. HYSTERICINA Muhl. Monroe County, *Dr. T. C. Porter.*
352 C. LURIDA Wahlenb. Susquehanna.
353 C. LURIDA, VAR. GRACILIS Bailey. Susquehanna.
354 C. SCHWEINITZII Dewey. Dr. Porter in his Flora of Pennsylvania says the carex in question does not seem to have been collected in Pennsylvania since Schweinitz first found it. A letter from Dr. Porter in the Alfred Twining Herbarium contains specimens of C. schweinitzii from New York state and C. michauxiana from the White Mountains of New Hampshire. Both species are rare.
355 C. RETRORSA Schwein. Susquehanna.
356 C. RETRORSA, VAR. HARTII Gray. Beebe's Swamp. Susquehanna, *J. A. Graves.*
357 C. LUPULINA Muhl. Kingston.
358 C. GRAYII Carey. Glen Summit, *Porter.* Rare.
359 C. INTUMESCENS Rudge. Susquehanna.
360 C. FOLLICULATA L. Not rare. Lake Winola, Birdseye.
361 C. MICHAUXIANA Boeckl. Very rare. Monroe County, *Dr. Porter.*
362 C. VESICARIA L., VAR. MONILE Fernald. Susquehanna.
363 C. ROSTRATA, VAR. UTRICULATA Bailey. Kellogg's Pond. Wayne County, *Dr. Porter.*
364 C. BULLATA Schkuhr. Susquehanna, *Dr. T. C. Porter.*
365 C. TUCKERMANI Dewey. Pocono, Susquehanna.

NOTE—The majority of the carices from Susquehanna, Pa., are from the collection of the late Prof. James A. Graves and were certified by Dr. Thomas C. Porter of Lafayette College to be correctly classified.

ARACEAE (Arum Family)

ARISAEMA Martius

366 A. TRIPHYLLUM Schott. (Indian Turnip, Jack-in-the-Pulpit.) Frequent.
367 A. STEWARDSONII Britton. Tannersville. See Britton's Manual, Appendix, page 1057.*
368 A. PUSILLUM Nash. Swamps of the Pocono, *Dr. J. W. Harshberger.**
369 A. DRACONTIUM Schott. (Green Dragon.) Susquehanna. Rare.

PELTANDRA Raf. (Arrow Arum)

370 P. VIRGINICA Kunth. Mud Pond, Elmhurst, Bigelow Pond. Not frequent.

CALLA L. (Water Arum)

371 C. PALUSTRIS L. Frequent in cold bogs. Atherton's Pond, Moosic Lake, Lehigh Pond.

SYMPLOCARPUS Salisb. (Skunk Cabbage)

372 S. FOETIDUS Nutt. Common in marshy places.

ORONTIUM L. (Golden Club)

373 O. AQUATICUM L. Moosic Lake, Spring Brook, Wayne County ponds.

ACORUS L. (Sweet Flag)

374 A. CALAMUS L. Common in wet places.

375 A. CALAMUS, VAR. VARIEGATUS Sm. North end of Glenburn Pond. *G. L. Newbold.**

LEMNACEAE (Duckweed Family)

SPIRODELA Schleid.

376 S. POLYRHIZA Schleid. Kingston pond holes.

LEMNA L. (Duckweed, Duck's Meat)

377 L. PERPUSILLA Torr. Tobyhanna, Lehigh Pond.

378 L. MINOR L. Common in ponds.

ERIOCAULACEAE (Pipewort Family)

ERIOCAULON L. (Pipewort)

379 E. ARTICULATUM Morong. Moosic Lake, Lake Winola. Not rare.

XYRIDACEAE (Yellow-Eyed Grass Family)

XYRIS L.

380 X. MONTANA Ries. Moosic Lake. Not infrequent.

381 X. CAROLINIANA Walt. Long Pond, Luzerne County. Rare.

COMMELINACEAE (Spiderwort Family)

TRADESCANTIA L.

382 T. VIRGINIANA L. La Plume. Not an infrequent escape.

COMMELINA L. (Day-Flower)

383 C. COMMUNIS L. Everhart Island.

384 C. VIRGINICA L. Hyde Park. Common.

PONTEDERIACEAE (Pickerel-Weed Family)

PONTEDERIA L. (Pickerel-Weed)

385 P. CORDATA L. Atherton's Pond, Mud Pond, Moosic Lake.

HETERANTHERA R. and P. (Mud Plantain)

386 H. DUBIA MacM. Kingston pond holes.

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JUNCACEAE (Rush Family)

JUNCUS L. (Rush, Bog Rush)

387 J. BUFONIUS L. Moosic Lake, Tobyhanna.
388 J. TENUIS Willd. Common near footpaths in woods.
389 J. SECUNDUS Beauv. Birdseye.
390 J. DUDLEYI Wiegand. Monroe County, *Prof. Porter.*
391 J. BALTICUS, VAR. LITTORALIS Engelm. Susquehanna, identified by *Dr. Porter.*
392 J. FILIFORMIS L. Wet shores.
393 J. EFFUSUS L. (Common Bulrush.) Frequent in marshy places.
394 J. BREVICAUDATUS Fernald. Mountain Inn Road, Gouldsboro.
395 J. CANADENSIS J. Gay. Glen Summit.
396 J. CANADENSIS, VAR. SUBCAUDATUS Engelm. Bald Mount.
397 J. PELOCARPUS Mey. Tobyhanna.
398 J. MILITARIS Bigel. (Bayonet Rush.) Twelve Mile Pond in Pike County, *Prof. Porter.*
399 J. ACUMINATUS Michx. Fairview.
400 J. MARGINATUS Rostk. Bald Mount. Common.

LUZULA DC. (Wood Rush)

401 L. SALTUENSIS Fernald. Dunmore, Taylor.
402 L. CAMPESTRIS DC. Common in dry woods.

LILIACEAE (Lily Family)

CHAMAELIRIUM Willd. (Devil's Bit)

403 C. LUTEUM Gray. (Blazing Star.) Moosic Lake, Campbell's Ledge. Rare.

AMIANTHIUM Gray. (Fly Poison)

404 A. MUSCAETOXICUM Gray. Moosic Mountain. Penobscot.

MELANTHIUM L.

405 M. LATIFOLIUM Desr. Rocky Glen (one plant), Fairview, Penobscot.

VERATRUM L. (False Hellebore)

406 V. VIRIDE Ait. (American White Hellebore.) Common in damp places.

UVULARIA L. (Bellwort)

407 U. PERFOLIATA L. Common.

OAKESIA Wats.

408 O. SESSILIFOLIA Wats. Common.

ALLIUM L. (Onion, Garlic)

409 A. TRICOCCUM Ait. (Wild Leek.) Dalton, Stillwater.
410 A. CERNUUM Roth. (Wild Onion.) Falling Springs.
411 A. CANADENSE L. (Wild Garlic.) Stroudsburg.

HEMEROCALLIS L. (Day Lily)

412 H. FULVA L. (Common Day Lily.) Common escape from gardens.

LILIUM L. (Lily)

413. L. PHILADELPHICUM L. (Wild Orange-Red Lily.) Common in dry fields.
414 L. CANADENSE L. (Wild Yellow Lily.) Chinchilla.
415 L. TIGRINUM Ker. (Tiger Lily.) Glenburn Pond, La Plume.

ERYTHRONIUM L. (Dog's Tooth Violet)

416 E. AMERICANUM Ker. (Yellow Adder's Tongue.) Plentiful at North Chinchilla.

ORNITHOGALUM L. (Star of Bethlehem)

417 O. NUTANS L. Roadside near Stroudsburg.

ASPARAGUS L.

418 A. OFFICINALIS L. Common as an escape in the Wyoming Valley.

CLINTONIA Raf.

419 C. BOREALIS Raf. Common in cold woods.

SMILACINA Desf. (False Solomon's Seal)

420 S. RACEMOSA Desf. (False Spikenard.) Common.
421 S. STELLATA Desf. Gouldsboro.
422 S. TRIFOLIA Desf. Pocono swamps.

MAIANTHEMUM Wiggers.

423 M. CANADENSE Desf. Common.

STREPTOPUS Michx. (Twisted Stalk)

424 S. AMPLEXIFOLIUS DC. Susquehanna. Rare.
425 S. ROSEUS Michx. Gravel Pond, Poyntelle. Not common.

POLYGONATUM Hill. (Solomon's Seal)

426 P. BIFLORUM Ell. (Small Solomon's Seal.) Campbell's Ledge. Common.
427 P. COMMUTATUM Dietr. (Great Solomon's Seal.) Frequent along river near Wyoming and Forty Fort, along Lackawanna at Taylor.

CONVALLARIA L. (Lily of the Valley)

428 C. MAJALIS L. Frequent as an escape.

MEDEOLA L. (Indian Cucumber Root)

429 M. VIRGINIANA L. Common in rich damp woods.

TRILLIUM L. (Wake Robin, Birthroot)

430 T. ERECTUM L. Frequent.
431 T. GRANDIFLORUM Salisb. Nicholson, Elk Mountain, West Orson. Not common.
432 T. UNDULATUM Willd. (Painted Trillium.) Frequent

ALETRIS L. (Colic-Root)

433 A. FARINOSA L. Campbell's Ledge, *Prof. Porter.*

SMILAX L. (Green Brier, Cat Brier)

434 S. HERBACEA L. Common.

435 S. ROTUNDIFOLIA L. Common

436 S. ROTUNDIFOLIA, VAR. QUADRANGULARIS Wood. Not infrequent.

437 S. GLAUCA. (Saw Brier.) Little Roaring Brook above Dunmore Reservoir.

438 S. HISPIDA Muhl. Country Club, Scranton, along Lackawanna. Taylor.

DIOSCOREACEAE (Yam Family)

DIOSCOREA L. (Yam)

439 D. VILLOSA L. (Wild Yam-Root.) Along banks of railroad at Taylor, Wyoming, along river banks. Not common.

AMARYLLIDACEAE (Amaryllis Family)

HYPOXIS L. (Star Grass)

440 H. HIRSUTA Coville. Common.

IRIDACEAE (Iris Family)

IRIS L. (Fleur-de-Lis)

441 I. VERSICOLOR L. (Larger Blue Flag.) Frequent.

442 I. PSEUDACORUS L. (Yellow Iris.) Colony by Fleetville road, Waverly.

SISYRINCHIUM L. (Blue-Eyed Grass)

443 S. ALBIDUM Raf. Naomi Pines, *Dr. Porter.*

444 S. ANGUSTIFOLIUM Mill. Frequent.

445 S. GRAMINEUM Curtis. Common.

ORCHIDACEAE (Orchis Family)

CYPRIPEDIUM L. (Lady's Slipper)

446 C. PARVIFLORUM Salisb. (Small Yellow Lady's Slipper.) Spring Brook, Campbell's Ledge.

447 C. PARVIFLORUM, VAR. PUBESCENS Knight. Frequent.

448 C. ACAULE Ait. (Stemless Lady's Slipper.) Lake Winola, Campbell's Ledge, Spring Brook.

ORCHIS L.

449 O. SPECTABILIS L. (Showy Orchis.) Gravel Pond, near Stroudsburg. Rare.

HABENARIA Willd. (Fringed Orchis)

450 H. BRACTEATA R. Br. Elk Hills, *Prof. R. N. Davis.*

451 H. FLAVA Gray. Susquehanna, Wyoming, *H. D. Dunn.*

452 H. CLAVELLATA Spreng. Moosic Lake, Atherton's Pond.

453 H. HOOKERI Torr. Bald Mount, Fairview, Tilbury Knob.

454 H. ORBICULATA Torr. Woods of Forest Hill Cemetery, Dunmore.

455 H. CILIARIS R. Br. (Yellow Fringed Orchis.) Moosic Lake, Birdseye.
456 H. BLEPHARIGLOTTIS Torr. (White Fringed Orchis.) Poyntelle, Lehigh Pond.
457 H. LACERA H. Br. (Ragged Fringed Orchis.) Orson, Moosic Lake.
458 H. PSYCODES Sw. Not uncommon.
459 H. FIMBRIATA R. Br. Not infrequent.

POGONIA Juss.

460 P. OPHIOGLOSSOIDES Ker. Lily Lake, Atherton's Pond, Lake Henry.
461 P. VERTICILLATA Nutt. Near top of Bald Mountain, *Prof. Francis Lincoln.* Rare.

CALOPOGON R. Br.

462 C. PULCHELLUS R. Br. Little Roaring Brook, Atherton's Pond, Moosic Lake.

SPIRANTHES Richard. (Ladies' Tresses)

463 S. GRACILIS Beck. Bald Mount. Frequent.
464 S. CERNUA Richard. Common.
465 S. CERNUA, VAR. OCHROLEUCA Ames. Frequent on dry banks. Big Birdseye.

EPIPACTIS Boehm. (Rattlesnake Plantain)

466 E. REPENS Crantz. Lake Winola. Rare.
467 E. PUBESCENS A. A. Eaton. Not uncommon.

LISTERA R. Br.

468 L. CORDATA R. Br. Rare. Sphagnum bog. Wayne County, *J. S. Moyer.*

CORALLORHIZA R. Br. (Coral Root)

469 C. TRIFIDA Chatelain. Clarks Summit, Beebe's swamp, Susquehanna.
470 C. MACULATA Raf. Poyntelle, Lake Henry, Bald Mount slope.

MICROSTYLIS Eaton. (Adder's Tongue)

471 M. UNIFOLIA BSP. Occasional in bogs and woods. Marshwood, Bald Mount.

LIPARIS Richard. (Twayblade)

472 L. LILIIFOLIA Richard. Campbell's Ledge, Fairview along Jersey Central Railroad.
473 L. LOESELII Richard. Elk Mountain at base of north dome.

APLECTRUM Torr. (Putty-Root, Adam-and-Eve)

474 A. HYEMALE Torr. Delaware Water Gap, *Prof. Porter.*

SALICACEAE

SALIX L. (Willow, Osier)

475 S. NIGRA Marsh. (Black Willow.) Elmhurst, along Susquehanna.
476 S. PENTANDRA L. (Bay-Leaved Willow.) Saylorsburg, Monroe County.
477 S. LUCIDA Muhl. (Shining Willow.) Duryea swamp.

478 S. FRAGILIS L. (Crack Willow.) Near Mocanaqua, *Dudley*. Planted for protection to river banks.
479 S. ALBA L., VAR. VITELLINA. (White Willow.) Frequent in Wyoming Valley.
480 S. ALBA, VAR. CAERULEA Koch. Along Susquehanna, *Dudley*.
481 S. BABYLONICA L. (Weeping Willow.) Cultivated and escaped.
482 S. LONGIFOLIA Muhl. (Sand Bar Willow.) Sand bars of Susquehanna River.
483 S. CORDATA Muhl. (Heart-Leaved Willow.) Frequent in two valleys.
484 S. CORDATA, VAR. MYRICOIDES Carey . Toby's Creek, Kingston, Thurston.
485 S. GLAUCOPHYLLA Bebb. (Broad-Leaved Willow.) Monroe County, *Prof. Porter*.
486 S. DISCOLOR Muhl. (Glaucous Willow.) Frequent in wet places on mountains.
487 S. PETIOLARIS Sm. Abundant at Moosic Lake.
488 S. HUMILIS Marsh. (Prairie Willow.) Frequent.
489 S. TRISTIS Ait. (Dwarf Gray Willow.) Campbell's Ledge, opposite Duryea.
490 S. SERICEA Marsh. (Silky Willow.) Frequent in Lackawanna Valley.
491 S. ROSTRATA Richards. Pocono, Penobscot, Wilkes-Barre.
492 S. INCANA. Kingston, *Thurston*. Escaped from cultivation.*

POPULUS L. (Aspen)

493 P. ALBA L. (Silver-Leaved Poplar.) Cultivated and spreading by root.
494 P. TREMULOIDES Michx. (Quaking Aspen.) Common.
495 P. GRANDIDENTATA Michx. (Large-Toothed Aspen.) Frequent.
496 P. CANDICANS Ait. (Balm of Gilead.) Rarely spreading from cultivation.
497 P. DELTOIDES Marsh. (Carolina Poplar.) Commonly spreading from the roots.
498 P. NIGRA, VAR. ITALICA Du Roi. (Lombardy Poplar.) Kingston flats.

MYRICACEAE (Sweet Gale Family)

MYRICA L.

499 M. GALE L. (Sweet Gale.) Lake Henry, Waymart, Naomi Pines.
500 M. CAROLINENSIS Mill. (Bayberry.) Monroe County, *Prof. Porter*.
501 M. ASPLENIFOLIA L. (Sweet Fern.) Common.

JUGLANDACEAE (Walnut Family)

JUGLANS L. (Walnut)

502 J. CINEREA L. (Butternut.) Frequent in Abington and Spring Brook
503 J. NIGRA L. (Black Walnut.) Not uncommon.

CARYA Nutt. (Hickory)

504 C. OVATA Koch. (Shell-Bark Hickory.) Frequent.
505 C. ALBA Koch. (White-Heart Hickory.) Frequent.
506 C. MICROCARPA Nutt. Mocanaqua.

507 C. GLABRA Spach. (Pignut.) Common.
508 C. CORDIFORMIS Koch. (Bitternut.) Common in Abingtons.

BETULACEAE (Birch Family)

CORYLUS L. (Hazelnut)

509 C. AMERICANA Walt. (Hazelnut.) Common.
510 C. ROSTRATA Ait. (Beaked Hazelnut.) Occasional.

OSTRYA Scop. (Hop Hornbeam)

511 O. VIRGINIANA Koch. Common in rich woods.

CARPINUS L. (Hornbeam, Ironwood)

512 C. CAROLINIANA Walt. (Blue or Water Beech.) Frequent along streams.

BETULA L. (Birch)

513 B. LENTA L. (Sweet or Black Birch.) Common.
514 B. LUTEA Michx. (Yellow Birch.) Frequent.
515 B. ALLEGHANIENSIS Britton. Monroe County.
516 B. NIGRA L. (River or Red Birch.) Frequent along rivers in two valleys.
517 B. POPULIFOLIA Marsh. (White Birch.) Common.
518 B. ALBA, VAR. PAPYRIFERA Spach. (Paper or Canoe Birch.) North slope of mountain at Chinchilla, near Elmhurst Boulevard speedway.

ALNUS Hill. (Alder)

519 A. CRISPA Pursh. (Mountain Alder.) Penobscot Knob.
520 A. INCANA Moench. (Speckled Alder.) Lower Lackawanna Valley, Moosic Mountain.
521 A. RUGOSA Spreng. (Smooth Alder.) Frequent.

FAGACEAE (Beech Family)

FAGUS L. Beech.

522 F. GRANDIFOLIA Ehrh. Common in Abingtons. Not infrequent elsewhere.

CASTANEA Hill. (Chestnut)

523 C. DENTATA Borkh. Common.

QUERCUS L. (Oak)

524 Q. ALBA L. (White Oak.) Common.
525 Q. BICOLOR Willd. (Swamp White Oak.) Above Leggett's Gap, Little Roaring Brook.
526 Q. PRINOIDES Willd. Damp woods.
527 Q. PRINUS L. (Chestnut Oak.) Frequent on mountains.
528 Q. RUBRA L. (Red Oak.) Common.
529 Q. COCCINEA Muench. (Scarlet Oak.) Frequent along Lackawanna.
530 Q. VELUTINA Lamb. (Black Oak.) Frequent.
531 Q. ILICIFOLIA Wang. (Scrub Oak.) Common on rocky hills.

URTICACEAE (Nettle Family)

ULMUS L. (Elm)

532 U. FULVA Michx. (Slippery Elm.) A dozen trees in Fell Woods, Waverly; one tree at Little Birdseye. Infrequent.

533 U. AMERICANA L. (American or White Elm.) Frequent.

CELTIS L. (Hackberry)

534 C. OCCIDENTALIS L. (Hackberry.) Opposite Plymouth along river; below Plymouth along river; near Pocono Knob.

CANNABIS L. (Hemp)

535 C. SATIVA L. One plant near Carbon street bridge, Scranton.

HUMULUS L. (Hop)

536 H. LUPULUS L. (Common Hop.) Occasional along the Susquehanna.

BROUSSONETIA L'Her.

537 B. PAPYRIFERA Vent. (Paper Mulberry.) One tree in Cherry Valley, Monroe County.

MORUS L. (Mulberry)

538 M. RUBA L. (Red Mulberry.) Several trees near Stroudsburg road to Cherry Valley, River near Kingston.

539 M. ALBA L. (White Mulberry.) Spontaneous near houses.

URTICA L. (Nettle)

540 U. GRACILIS Ait. (Slender Nettle.) Common along fence rows.

LAPORTEA Gaud. (Wood Nettle)

541 L. CANADENSIS Gaud. Common in moist woods.

PILEA Lindl. (Clearweed)

542 P. PUMILA Gray. Common in moist shaded places.

BOEHMERIA Jacq. (False Nettle)

543 B. CYLINDRICA Sw. Duryea Swamp, near Waverly, Taylor.

PARIETARIA L. (Pellitory)

544 P. PENNSYLVANICA Muhl. Taylor ledges, shaded rocky banks.

SANTALACEAE (Sandalwood Family)

COMANDRA Nutt. (Bastard Toad Flax)

545 C. UMBELLATA Nutt. Common in dry grounds. Big Birdseye.

LORANTHACEAE (Mistletoe Family)

ARCEUTHOBIUM Bieb.

546 A. PUSILLUM Peck. (Dwarf Mistletoe.) Lehigh Pond on dwarf spruces. Bog near Tannersville, *Prof. Porter.*

ARISTOLOCHIACEAE (Birthwort Family)

ASARUM L. (Wild Ginger)

547 A. CANADENSE L. Common in rich damp woods.

POLYGONACEAE (Buckwheat Family)

RUMEX L. (Dock, Sorrel)

548 R. PATIENTIA L. (Patience Dock.) Near Wyoming, *H. D. Dunn.*
549 R. BRITANNICA L. (Great Water Dock.) Wayne County, *Prof. Porter.*
550 R. CRISPUS L. (Yellow Dock.) Common.
551 R. ALTISSIMUS Wood. (Pale Dock.) Wyoming.
552 R. VERTICILLATUS L. (Swamp Dock.) Kingston pond holes.
553 R. OBTUSIFOLIUS L. (Bitter Dock.) Common in ditches.
554 R. ACETOSELLA L. (Sheep Sorrel.) A common weed.

POLYGONUM L. (Knotweed)

555 P. AVICULARE L. Common in dooryards.
556 P. AVICULARE, VAR. LITTORALE Koch. Solomon's Gap, *Prof. C. O. Thurston.*
557 P. ERECTUM L. Common.
558 P. TENUE Michx. Top of Campbell's Ledge.
559 P. LAPATHIFOLIUM L. Opposite Plymouth.
560 P. AMPHIBIUM L. Lake Carey, Susquehanna River, Plymouth.
561 P. AMPHIBIUM, VAR. HARTWRIGHTII Gray. Swamp at Orson, opposite Plymouth.
562 P. MUHLENBERGII Wats. Opposite Plymouth.
563 P. PENNSYLVANICUM L. Moist soil. Not uncommon.
564 P. CAREYI Olney. Pocono Station along railroad bank.
565 P. HYDROPIPER L. (Common Smartweed.) Common.
566 P. ACRE HBK. (Water Smartweed.) Common in swamps.
567 P. ORIENTALE L. (Prince's Feather.) Occasional in waste ground near gardens.
568 P. PERSICARIA L. (Lady's Thumb.) Frequent.
569 P. HYDROPIPEROIDES Michx. (Mild Water Pepper.) Shores of Susquehanna.
570 P. VIRGINIANUM L. Near Taylor depot, near Dunmore Cemetery.
571 P. ARIFOLIUM L. (Halberd-Leaved Tear-Thumb.) Frequent in low ground.
572 P. SAGITTATUM L. (Arrow-Leaved Tear-Thumb.) Common in marshy places.
573 P. CONVOLVULUS L. (Black Bindweed.) Common.
574 P. CILINODE Michx. Kingston, Tobyhanna.
575 P. SCANDENS L. (Climbing False Buckwheat.) Common.
576 P. DUMETORUM L. Opposite Plymouth.
577 P. CUSPIDATUM Sieb. and Zucc. Scranton, *C. H. Scharar.*

FAGOPYRUM L. (Buckwheat)

578 F. ESCULENTUM Moench. (Buckwheat.) Spontaneous in old fields.

CHENOPODIACEAE (Goosefoot Family)

CHENOPODIUM L. Goosefoot, Pigweed)

579 C. AMBROSIOIDES L. (Mexican Tea.) Frequent.
580 C. AMBROSIOIDES, VAR. ANTHELMINTICUM Gray. (Wormseed.) Not infrequent.
581 C. BOTRYS L. (Jerusalem Oak.) Common.
582 C. CAPITATUM Asch. (Strawberry Blite.) Susquehanna, *J. A. Graves.*
583 C. BONUS-HENRICUS L. (Good-King-Henry.) Moscow, *Prof. R. N. Davis.*
584 C. HYBRIDUM L. (Maple-Leaved Goosefoot.) Not uncommon.
585 C. ALBUM L. (Lamb's Quarters, Pigweed.) Common.
586 C. ALBUM, VAR. VIRIDE Moq. Linden street dump, Scranton.
587 C. URBICUM L. Swetland street, Scranton.
588 C. LEPTOPHYLLUM Nutt. Lackawanna Yards, Scranton.

ATRIPLEX L. (Orach)

589 A. ROSEA L. Ont. and West. Yard, Scranton.
590 A. PATULA, VAR. HASTATA Gray. Common on Scranton streets.
591 A. PATULA, VAR. LITTORALIS Gray. Scranton streets.

SALSOLA L. (Saltwort)

592 S. KALI, VAR. TENUIFOLIA G. F. W. Mey. (Russian Thistle.) D., L. & W. R. R., Glenburn.

AMARANTHUS L. (Amaranth)

593 A. RETROFLEXUS L. (Green Amaranth, Pigweed.) A common weed.
594 A. PANICULATUS L. (Purple Amaranth.) Occasional.
595 A. GRAECIZANS L. (Tumble Weed.) Common.
596 A. BLITOIDES Wats. Pittston Junction, O. and W. yard, Scranton.
597 A. SPINOSUS L. (Thorny Amaranth.) Near Nay Aug Park.

PHYTOLACCACEAE (Pokeweed Family)

PHYTOLACCA L.

598 P. DECANDRA L. (Common Poke.) Common.

NYCTAGINACEAE (Four-O'Clock Family)

OXYBAPHUS L'Her.

599 O. NYCTAGINEUS Sweet. Lehigh Valley tracks at Wilkes-Barre.

ILLECEBRACEAE (Knotweed Family)

SCLERANTHUS L. (Knawel)

600 S. ANNUUS L. Streets of Wyoming, near Stroudsburg, barren fields near Wilkes-Barre.

ANYCHIA Michx. (Forked Chickweed)

601 A. POLYGONOIDES Raf. Susquehanna, *Prof. J. A. Graves.*
602 A. CANADENSIS BSP. Bank along D., L. & W. tracks, Taylor.

AIZOACEAE

MOLLUGO L.

603 M. VERTICILLATA L. (Carpet Weed.) Frequent.

CARYOPHYLLACEAE (Pink Family)

SPERGULARIA J. and C. Presl. (Sand Spurrey)

604 S. RUBRA Presl. Wyoming, east road to Campbell's Ledge.

SPERGULA L. (Spurrey)

605 S. ARVENSIS L. (Corn Spurrey.) Occasional along roadsides and in grain fields.

SAGINA L. (Pearlwort)

606 S. DECUMBENS T. and G. Near Kingston.

ARENARIA L. (Sandwort)

607 A. LATERIFLORA L. Susquehanna, *Prof. J. A. Graves.*

608 A. SERPYLLIFOLIA L. (Thyme-Leaved Sandwort.) Hawley.

609 A. GROENLANDICA Spreng. Local; big colony on rocks east of Moosic station of the Laurel Line, South Scranton near Nay Aug Park.

STELLARIA L. (Chickweed, Starwort)

610 S. BOREALIS Bigel. Tobyhanna.

611 S. ULIGINOSA Murr. Taylor woods, Dunmore.

612 S. LONGIFOLIA Muhl. Clarks Summit.

613 S. GRAMINEA L. Keyser Valley.

614 S. PUBERA Michx. (Great Chickweed.) Clarks Summit.

615 S. MEDIA Cyrill. (Common Chickweed.) Very abundant.

616 S. AQUATICA Scop. Toward Boulevard from Dunmore, *Prof. R. N. Davis.*

CERASTIUM L. (Mouse-Ear Chickweed)

617 C. ARVENSE L. (Field M.) Common.

618 C. VULGATUM L. (Common M.) Elmhurst.

619 C. VISCOSUM L. Common.

620 C. NUTANS Raf. Plymouth.

AGROSTEMMA L. (Corn Cockle)

621 A. GITHAGO L. Common in grain fields.

LYCHNIS L. (Campion)

622 L. FLOS-CUCULI L. (Ragged Robin.) Nay Aug Park.

623 L. CHALCEDONICA L. (Scarlet Lychnis.) Near Cobb's Corners.

624 L. DIOICA L. (Red Lychnis.) Susquehanna.

625 L. ALBA Mill. Common.

SILENE L. (Catchfly)

626 S. ANTIRRHINA L. (Sleepy Catchfly.) Frequent in Wyoming Valley.

627 S. ARMERIA L. Scranton Golf Grounds.

628 S. GALLICA L. Pittston Junction, Linden street bridge, Scranton.

629 S. NOCTIFLORA L. (Night-Flowering Catchfly.) Mud Pond, Elmhurst.
630 S. PENNSYLVANICA Michx. (Wild Pink.) Campbell's Ledge.
631 S. STELLATA Ait. (Starry Campion.) Campbell's Ledge.
632 S. LATIFOLIA B. and R. (Bladder Campion.) Kingston, Diamond Flats, Scranton.

SAPONARIA L.

633 S. OFFICINALIS L. (Soapwort.) Common.
634 S. VACCARIA L. (Cow-Herb.) Coxton Junction, *Prof. R. N. Davis.*

GYPSOPHILA L.

635 G. MURALIS L. Susquehanna, *Prof. J. A. Graves.* Rare.

DIANTHUS L. (Pink, Carnation)

636 D. BARBATUS L. (Sweet William.) Occasional escape. Waverly, La Plume
637 D. ARMERIA L. (Deptford Pink.) Tobyhanna.

PORTULACACEAE (Purslane Family)

CLAYTONIA L. (Spring Beauty)

638 C. VIRGINICA L. La Plume. Grove across river from Wilkes-Barre. Not common except in North Abington.
639 C. CAROLINIANA Michx. Common in Abingtons and about Moscow.

PORTULACA L. (Purslane)

640 P. OLERACEAE L. Common garden weed.

CERATOPHYLLACEAE (Hornwort Family)

CERATOPHYLLUM L. (Hornwort)

641 C. DEMERSUM L. Lake Henry, Gouldsboro, Lake Winola.

NYMPHAEACEAE (Water Lily Family)

NYMPHAEA L. (Yellow Pond Lily, Spatter Dock)

642 N. ADVENA Ait. (Cow Lily.) Common in swamps.
643 N. RUBRODISCA Greene. Tobyhanna.
644 N. MICROPHYLLA Pers. Tobyhanna, Lake Henry.

CASTALIA Salisb. (Water Lily)

645 C. ODORATA W. and W. (Sweet Scented Water Lily.) Lily Lake, Moosic Lake, Lake Henry, Crooked Lake.

BRASENIA Schreb. (Water Shield)

646 B. SCHREBERI Gmel. Mud Pond, Elmhurst; Pocono Station, Lake Henry.

RANUNCULACEAE (Crowfoot Family)

RANUNCULUS L. (Buttercup)

647 R. AQUATILIS, VAR. CAPILLACEUS DC. Pond Brook. Susquehanna, *Prof. J. A. Graves.*

648 R. LAXICAULIS Darby .(Water Plantain.) Hawley.
649 R. FLAMMULA L., VAR,, REPTANS Mey. (Smaller Spearwort.) Above Berwick, Heller.
650 R. SCELERATUS L. (Cursed Crowfoot.) Kingston pond holes.
651 R. ABORTIVUS L. (Small-Flowered Crowfoot.) Common.
652 R. RECURVATUS Poir. (Hooked Crowfoot.) Common.
653 R. FASCICULARIS Muhl. (Early Crowfoot.) Campbell's Ledge.
654 R. SEPTENTRIONALIS Poir. (Swamp Buttercup.) Common.
655 R. REPENS L. (Creeping Buttercup.) Dunmore Cemetery, Pittston.
656 R. PENNSYLVANICUS L. (Bristly Crowfoot.) Frequent.
657 R. BULBOSUS L. (Bulbous Buttercup.) Not infrequent.
658 R. ACRIS L. (Tall Buttercup.) A meadow pest.

THALICTRUM L. (Meadow Rue)

659 T. DIOICUM L. (Early Meadow Rue.) Rocky woods. Common.
660 T. DASYCARPUM F. and L. Campbell's Ledge, Nicholson.
661 T. POLYGAMUM Muhl. (Tall Meadow Rue.) Nicholson, frequent north of West Mountain.

ANEMONELLA Spach.

662 A. THALICTROIDES Spach. (Rue Anemone.) Common

HEPATICA Hill. (Liverleaf, Hepatica)

663 H. TRILOBA Chaix. Common
664 H. ACUTILOBA DC. Common in Abington region. Have not seen it in the Lackawanna-Wyoming Valley.

ANEMONE L. (Wind Flower)

665 A. CYLINDRICA Gray .North of Luzerne, *Prof. Thurston.* Rare.
666 A. VIRGINIANA L. White variety on Campbell's Ledge. Frequent.
667 A. CANADENSIS L. Near Scranton Golf Grounds.
668 A. QUINQUEFOLIA L. (Wood Anemone.) Margin of woods, common in Lackawanna County.

CLEMATIS L. (Virgin's Bower)

669 C. VIRGINIANA L. Common.
670 C. VERTICILLARIS DC. Near tollgate on Northern Boulevard, near Archbald Pot-Hole, Bald Mount near bluff. Rare.

CALTHA L. (Marsh Marigold)

671 C. PALUSTRIS L. Common in marshes.
672 C. PALUSTRIS, VAR. FLABELLIFOLIA T. and G. Pocono Summit spring. Naomi Pines, *Prof. Porter.*

TROLLIUS L. (Globe Flower)

673 T. LAXUS Salisb. (Spreading Globe Flower.) Monroe County, *Prof. Porter.*

COPTIS Salisb. (Gold Thread)

674 C. TRIFOLIA Salisb. Common in moist woods.

HELLEBORUS L. (Hellebore)

675 H. VIRIDIS L. (Green Hellebore, Christmas Flower.) Reported near Schultzville.

NIGELLA L. (Fennel Flower)

676 N. DAMASCENA L. (Love in the Mist.) Near old Lackawanna Steel Mill.

AQUILEGIA L. (Columbine)

677 A. CANADENSIS L. Abundant on cliffs.

678 A. VULGARIS L. La Plume, Clarks Summit; escaped from cultivation.

DELPHINIUM L. (Larkspur)

679 D. AJACIS L. Pittston Junction.

CIMICIFUGA L. (Bugbane)

680 C. RACEMOSA Nutt. (Black Snakeroot, Black Cohosh.) Common in rocky woods.

ACTAEA L. (Baneberry, Cohosh)

681 A. RUBRA Willd. (Red Baneberry.) La Plume. Not frequent.

682 A. ALBA Mill. (White Baneberry.) Common in rich woods.

HYDRASTIS Ellis. (Orange-Root, Yellow Puccoon)

683 H. CANADENSIS L. (Golden Seal.) Only station reported near Tunkhannock by *Mr. Graham,* proprietor Graham Hotel.

MAGNOLIACEAE (Magnolia Family)

MAGNOLIA L.

684 M. ACUMINATA L. (Cucumber Tree.) Two uncultivated trees reported at Pine Hill, Wyoming County, by *Samuel Hawley.*

LIRIODENDRON L. (Tulip Tree)

685 L. TULIPIFERA L. (Yellow Poplar or Whitewood.) Abundant in Abingtons.

MENISPERMACEAE (Moonseed Family)

MENISPERMUM L. (Moonseed)

686 M. CANADENSE L. Road to Pocono Knob from Stroudsburg, Susquehanna, near Kingston. Rare.

BERBERIDACEAE (Barberry Family)

PODOPHYLLUM L. (May Apple, Mandrake)

687 P. PELTATUM L. Common in rich woods.

JEFFERSONIA Barton. (Twinleaf)

688 J. DIPHYLLA Pers. Susquehanna, *Prof. James A. Graves.*

CAULOPHYLLUM Michx. (Blue Cohosh)

689 C. THALICTROIDES Michx. (Pappoose Root.) Deep rich woods. Occasional.

BERBERIS L. (Barberry)

690 B. VULGARIS L. (Common Barberry.) Local; a pest near Waverly and Wallsville.

LAURACEAE (Laurel Family)

SASSAFRAS Nees.

691 S. VARIIFOLIUM Ktze. (Sassafras.) Frequent.

BENZOIN Fabric. (Wild Allspice, Fever Bush)

692 B. AESTIVALE Nees. (Spice Bush, Benjamin Bush.) Common.

PAPAVERACEAE (Poppy Family)

SANGUINARIA L. (Bloodroot)

693 S. CANADENSIS L. (Bloodroot.) Gravel Pond, Nicholson, north of viaduct along creek.

CHELIDONIUM L. (Celandine)

694 C. MAJUS L. Common in rich, damp soil.

PAPAVER L. (Poppy)

695 P. SOMNIFERUM L. (Common Poppy.) Pittston Junction, near dwellings.

696 P. DUBIUM L. Waverly, J. A. Linen farm, *H. D. Dunn.*

FUMARIACEAE (Fumitory Family)

ADLUMIA Raf. (Climbing Fumitory)

697 A. FUNGOSA Green. Abundant in Abingtons, Lake Sheridan.

DICENTRA Bernh.

698 D. CUCULLARIA Bernh. (Dutchman's Breeches.) Common in Abingtons, Moscow.

699 D. CANADENSIS Walp. (Squirrel Corn.) La Plume, Chinchilla, Moscow. Rare in two valleys.

700 D. SPECTABILIS. (Bleeding Heart.) Escaped from cultivation.*

CORYDALIS Medic.

701 C. SEMPERVIRENS Pers. Not uncommon on rocks.

CRUCIFERAE (Mustard Family)

DRABA L.

702 D. VERNA L. (Whitlow Grass.) Along Susquehanna opposite Wilkes-Barre.

BERTEROA DC.

703 B. INCANA DC . West of Salyorsburg, Monroe County.

ALYSSUM L.

704 A. ALYSSOIDES L. (Yellow or small Alyssum.) Pike County, *Prof. Porter.*

THLASPA L. (Penny Cress)

705 T. ARVENSE L. Near Griffin's Pond, *H. D. Dunn.*

LEPIDIUM L. (Pepper Grass)

706 L. VIRGINICUM L. (Wild Peppergrass.) A common weed.

707 L. RUDERALE L. Near Coxton.

708 L. SATIVUM L. (Garden Cress.) Near Elk Mountain.
709 L. CAMPESTRE R. Br. Dunmore Cemetery, No. 6, Dunmore.

CAPSELLA Medic. (Shepherd's Purse)

710 C. BURSA-PASTORIS Medic. Common.

CAMELINA Crantz. (False Flax)

711 C. MICROCARPA Andrz. Chinchilla, Griffin's Pond, *H. D. Dunn.*

RAPHANUS L. (Radish)

712 R. SATIVUS L. Old truck farms in Wyoming Valley.

BRASSICA L. (Mustard, Turnip)

713 B. ALBA Boiss. (White Mustard.) Swetland Street, Scranton.
714 B. ARVENSIS Ktze. Near Nay Aug Park, Prescott Avenue.
715 B. JUNCEA Cosson. Chinchilla.
716 B. NIGRA Koch. Common.
717 B. OLERACEA L. (Cabbage.) Kingston, *Thurston.*

CONRINGIA Link. (Hare's Ear Mustard)

718 C. ORIENTALIS Dumort. Wyoming, Keyser Valley.

SISYMBRIUM L. (Hedge Mustard)

719 S. OFFICINALE Scop. Common.
720 S. ALTISSIMUM L. (Tumble Mustard.) O. and W. Yard, Scranton.
721 S. THALIANUM Gay. Kingston Flats.

HESPERIS L. (Rocket)

722 H. MATRONALIS L. (Dame's Violet.) Stroudsburg, Uniondale. Spreading from cultivation.

ERYSIMUM L. (Treacle Mustard)

723 E. CHEIRANTHOIDES L. (Worm-Seed Mustard.) Lincoln Heights, O. and W. Yard.

RADICULA Hill. (Water Cress)

724 R. NASTURTIUM-AQUATICUM B. and R. (True Water Cress.) Common.
725 R. SYLVESTRIS Druce. (Yellow Cress.) Susquehanna.
726 R. PALUSTRIS Moench. (Marsh Cress.) Common.
727 R. PALUSTRIS, VAR. HISPIDA Rob. Wyoming.
728 R. ARMORACIA Rob. (Horseradish.) Frequent

BARBAREA R. Br. (Winter Cress)

729 B. VULGARIS R. Br. (Common Winter Cress, Yellow Rocket.) Common.

DENTARIA L. (Toothwort, Pepper-Root)

730 D. DIPHYLLA Michx. Near Scranton Golf Grounds. Frequent.
731 D. LACINIATA Muhl. Tunkhannock Creek, Nicholson. Not common.

CARDAMINE L. (Bitter Cress)

732 C. BULBOSA BSP. (Spring Cress.) Kingston. Hawley. *Dr. L. W. Ross.*

733 C. PRATENSIS L. (Cuckoo Flower.) Hawley, *Dr. L. W. Ross.*
734 C. PARVIFLORA L. Kingston Flats.
735 C. PENNSYLVANICA Muhl. Kingston Flats.

ARABIS L. (Rock Cress)

736 A. LYRATA L. Common on cliffs.
737 A. DENTATA T. and G. Frequent.
738 A. GLABRA Bernh. (Tower Mustard.) Near Taylor, D., L. and W. Railroad. Not common.
739 A. HIRSUTA Scop. Taylor Ledge.
740 A. LAEVIGATA Poir. Kingston.
741 A. CANADENSIS L. (Sickle-Pod.) Campbell's Ledge.

CAPPARIDACEAE (Caper Family)

POLANISIA Raf.

742 P. GRAVEOLENS Raf. Susquehanna near Nanticoke.

SARRACENIACEAE (Pitcher-Plant Family)

SARRACENIA L.

743 S. PURPUREA L. (Side-Saddle Flower, Pitcher-Plant.) Common in swamps.
744 S. PURPUREA, VAR. HETEROPHYLLA Torr. Bassett's Pond, *H. D. Dunn.* Not frequent.

DROSERACEAE (Sundew Family)

DROSERA L. (Sundew)

745 D. ROTUNDIFOLIA L. (Round-Leaved Sundew.) Rocky Glen, Birdseye, Moosic Lake.
746 D. LONGIFOLIA L. Maplewood, Lehigh Pond, Pocono Pines.

CRASSULACEAE (Orpine Family)

PENTHORUM L. (Ditch Stonecrop)

747 P. SEDOIDES L. Open wet places. Common.

SEDUM L. (Stonecrop)

748 S. ACRE L. (Mossy Stonecrop.) Clarks Summit, D., L. and W. Railroad. Big colony on ledge of rocks by Fleetville road from Waverly.
749 S. PURPUREUM Tausch. (Live-Forever.) Frequent escape.
750 S. ROSEUM, Scop. (Roseroot.) High cliffs opposite Port Jervis, *Prof. Porter.*

SAXIFRAGACEAE (Saxifrage Family)

SAXIFRAGA L. (Saxifrage)

751 S. PENNSYLVANICA L. Swamp south of Clarks Summit, Kingston.
752 S. VIRGINIENSIS Michx. (Early Saxifrage.) Common in wet places.

TIARELLA L. (False Miterwort)

753 T. CORDIFOLIA L. Common.

HEUCHERA L. (Alum Root)

754 H. AMERICANA L. Common in Monroe County. Not reported in Lackawanna County.

MITELLA L. (Miterwort, Bishop's Cap)

755 M. DIPHYLLA L. Frequent.

756 M. NUDA L. Swamp on Pocono northeast of Tobyhanna. Rare.

CHRYSOSPLENIUM L. (Golden Saxifrage)

757 C. AMERICANUM Schwein. Common in cold, wet places.

HYDRANGEA L.

758 H. ARBORESCENS L. (Wild Hydrangea.) Frequent along mountain streams.

RIBES L. (Currant, Gooseberry)

759 R. CYNOSBATI L. (Prickly Gooseberry.) Common in rocky woods.

760 R. ROTUNDIFOLIUM Michx. Less common than the above.

761 R. OXYCANTHOIDES L. (Smooth Gooseberry.) Monroe County, *Prof. Porter.*

762 R. FLORIDUM L'Her. (Wild Black Currant.) Near Hawley.

763 R. NIGRUM L. (Black Currant of Gardens.) Clarks Green.

764 R. LACUSTRE Poir. (Swamp Black Currant.) Elk Mountain. Rare.

765 R. PROSTRATUM L'Her. (Skunk Currant.) Tobyhanna and adjacent regions.

766 R. VULGARE Lam. (Red Currant of Gardens.) Occasional escape. Near Woodward Breaker, Kingston; Fuller Farm, Waverly.

767 R. AUREUM Pursh. (Missouri or Buffalo Currant.) Dalton.

HAMAMELIDACEAE (Witch-Hazel Family)

HAMAMELIS L. (Witch-Hazel)

768 H. VIRGINIANA L. Common.

PLATANACEAE (Plane Tree Family)

PLATANUS L. (Sycamore, Buttonwood)

769 P. OCCIDENTALIS L. Frequent along creeks and rivers.

ROSACEAE (Rose Family)

PHYSOCARPUS Maxim. (Nine Bark)

770 P. OPULIFOLIUS Maxim. Along the Susquehanna.

SPIRAEA L.

771 S. SALICIFOLIA L. (Meadow Sweet.) Abundant.

772 S. TOMENTOSA L. (Hardhack, Steeple Bush.) Frequent.

ARUNCUS Adans.

773 A. SYLVESTER Kosteletzsky. Along Fleetville road from Waverly.

SORBARIA A. Br.

774 S. SORBIFOLIA A. Br. Green Ridge near D. and H. Depot, Waverly.

GILLENIA Moench. (Indian Physic)

775 G. TRIFOLIATA Moench. Campbell's Ledge, Penobscot Knob.

PYRUS L.

776 P. COMMUNIS L. (Wild Pear.) Near Griffin Reservoir. Several trees east of Waverly on the Carbondale road.

777 P. CORONARIA L. (American Crab.) Moosic, Newton Township.

778 P. LANCIFOLIA Rehdr. The common crab apple of this section*

NOTE—Dr. C. S. Sargent in a letter to the author under date of Nov. 22, 1915, says, "The Scranton crab apple which was formerly called Malus angustifolia is the type of Malus lancifolia Rehder. It is this tree which has always been mistaken for the true Malus angustifolia which is a southern species."

779 P. MALUS L. (Apple.) Frequent. Spontaneous.

780 P. ARBUTIFOLIA L. (Chokeberry.) This species with red fruit is common.

781 P. MELANOCARPA Willd. This black-fruited chokeberry is common.

782 P. AMERICANA DC. (American Mountain Ash.) Bald Mount, Newton Lake. Rather abundant on the Pocono but rare elsewhere.

AMELANCHIER Medic. (June Berry)

783 A. CANADENSIS Medic. (Shad Bush, Service Berry.) Common.

784 A. SPICATA C. Koch. Hawley, *Dr. Lloyd Ross.*

785 A. OLIGOCARPA Roem. Naomi Pines, *Dr. Porter.* Rare.

CRATAEGUS L. (Hawthorn)

786 C. OXYCANTHA L. (English Hawthorn.) Several shrubs north of Dundaff, *Prof. Dudley.* A rare escape from gardens.

787 C. CRUS-GALLI L. (Cockspur Thorn.) Abundant back of Plymouth and Wilkes-Barre. Not reported in Lackawanna Valley.

788 C. PORTERI Britton. See Britton's Manual, page 520.*

789 C. EVANSIANA Sargt. Near Dalton. (Identified by W. W. Ashe.)*

790 C. NEO-CANBYI Sargt. Hillside between Stroudsburg and Tannersville, *W. M. Canby and Prof. Sargent.* Page 638 Crataegus of Easton Pa., by C. S. Sargent.*

791 C. PUNCTATA Jacq. Most common in two valleys.

792 C. PUNCTATA, VAR. AUREA Ait. (Yellow Fruited Hawthorn.) Keyser Valley, Spring Brook. Not uncommon.

793 C. PUNCTATA, VAR. RUBRA Ait. (Red Fruited Hawthorn.) Occasional. Chinchilla.

794 C. COCCINEA L. Near Dalton.

795 C. BILTMOREANA Beadle. Two miles south of Stroudsburg, *Prof. Porter.*

796 C. DELTOIDES Ashe. Moosic Lake, *C. H. Scharar.*

797 C. POPULNEA Ashe. Keyser Valley near car shops.

798 C. MACRACANTHA Lodd. Duryea, Lower Lackawanna Valley, Lincoln Heights.

799 C. INDUCTA, Ashe. Keyser Valley, northwest of car shops.*

Dr. C. S. Sargent, Director of the Arnold Arboretum and the highest authority on trees and shrubs, after a study of dried specimens as well as the living trees on the ground in most cases, has classified and named the following local Crataegus. The descriptions of these species were published in the proceedings of the Philadelphia Academy of Natural Sciences, January, February, March number, 1910:

800 C. DUNMORENSIS Sarg. Near corner of Electric Street and Jefferson Avenue, Dunmore.

801 C. INCOMPTA Sargt. Maloney Home, Scranton.

802 C. CONJUNCTA Sargt. Keyser Valley, near car shop.

803 C. PUTA Sargt. Lincoln Heights.

804 C. PYRAMIDATA Sargt. Country Club, Dunmore Lithuanian Cemetery.

805 C. IMPERVA Sargt. Dunmore.

806 C. DELECTATA Sargt. Keyser Valley.

807 C. VEGANDIS Sargt. Maloney Home.

808 C. EFFERA Sargt. Taylor Hill, Country Club.

809 C. CAERULIA Sargt. Lincoln Heights, Keyser Valley.

810 C. TENELLA Ashe. Throop railroad crossing, Dunmore.

811 C. ANGUSTISEPALA Sargt. Chinchilla.

812 C. FLAMMATA Sargt. Birdseye.

813 C. RUFIPES Ashe. Keyser Valley, north of car shops.

814 C. PROPENSA Sargt. Keyser Valley.

815 C. GENEALIS Sargt. Lincoln Heights.

816 C. HOLMESIANA Ashe. Keyser Valley, one tree near Wilkes-Barre; common about Waverly.

817 C. ROTUNDIFOLIA, VAR. COCCINEA. Keyser Valley.

818 C. DODGEI Ashe. Lincoln Heights.

819 C. SCOPULORUM Sargt. Campbell's Ledge.

820 C. TWININGI Sargt. Lincoln Heights.

821 C. APPOSITA Sargt. Keyser Valley.

822 C. ERRATA Sargt. Keyser Valley.

823 C. PROPEXA Sargt. Campbell's Ledge.

824 C. DIAPHORA Sargt. Keyser Valley.

825 C. AGAIA Sargt. Keyser Valley near old pest house.

FRAGARIA L. (Strawberry)

826 F. VIRGINIANA Duchesne. Common.

827 F. VESCA L. Common.

828 F. VESCA, VAR. ALBA Rydb. This variety has been collected at Moscow and Elk Mountain. It has been reported as abundant in Wayne County.

829 F. VESCA, VAR. AMERICANA Porter. Common in all rocky woods.

WALDSTEINIA Willd.

830 W. FRAGARIOIDES Trattinick. Common.

POTENTILLA L. (Cinquefoil, Five-Finger)

831 P. ARGUTA Pursh. Top of Campbell's Ledge. Rare.

832 P. MONSPELIENSIS, VAR. NORVEGICA Rydb. Common.

833 P. ARGENTEA L. (Silvery Cinquefoil.) Common.

834 P. RECTA L. Wyoming, *Prof. R. N. Davis.*

835 P. PALUSTRIS Scop. (Marsh Potentilla.) Wyoming Swamp, Lehigh Pond.

836 P. FRUTICOSA L. (Shrubby Cinquefoil.) Monroe and Pike, *Prof. Porter.*

837 P. TRIDENTATA Ait. (Three-Toothed Cinquefoil.) Penobscot Knob and Bald Mount are the only stations known within limits.

838 P. CANADENSIS L. (Common Cinquefoil.) A very common weed.

FILIPENDULA Hill.

839 F. RUBRA Rob. (Queen of the Prairie.) Lake Henry, Waverly.

840 F. ULMARIA Maxim. (Queen of the Meadow.) Mount Pocono, Waverly.

GEUM L. (Avens)

841 G. CANADENSE Jacq. Frequent.

842 G. FLAVUM Bicknell. (Cream-Colored Avens.) Luzerne County, *Prof. Porter.*

843 G. VIRGINIANUM L. Occasional.

844 G. STRICTUM Ait. Lake Winola, Tobyhanna.

845 G. RIVALE L. (Purple Avens.) Lake Henry.

RUBUS L. (Bramble)

846 R. IDAEUS L. North Chinchilla reservoir gorge.

847 R. IDAEUS, VAR. ACULEATISSIMUS R. and T. (Wild Red Raspberry.) Common.

848 R. NEGLECTUS Peck. Lake Scranton gorge, Mount Ararat. Rather frequent.

849 R. PHOENICOLASIUS Maxim. (Wineberry.) Escape, near Water Gap.

850 R. OCCIDENTALIS L. (Black Raspberry.) Common.

851 R. ODORATUS L. (Purple Flowering Raspberry.) Common.

852 R. TRIFLORUS Richards. (Dwarf Raspberry.) Pocono, *Dudley.* Not common.

853 R. ALLEGHENIENSIS Porter. Common.

854 R. CANADENSIS L. (Millspaugh's Blackberry.) Tobyhanna, *Prof. Porter.*

855 R. SETOSUS Bigel. Swamps, Naomi Pines.

856 R. NIGRICANS Rydb. (Bristly Blackberry.) Naomi Pines, *Prof. Porter.*

857 R. HISPIDUS L. Frequent in swamps.

858 R. VILLOSUS Ait. (Dewberry.) Common.

859 R. VILLOSUS, VAR. HUMIFUSUS T. & G. Monroe County, *Prof. Porter.*

DALIBARDA Kalkalm.

860 D. REPENS L. Tobyhanna, Lake Henry, Gouldsboro. Not uncommon.

AGRIMONIA L. (Agrimony)

861 A. STRIATA Michx. Common.

862 A. MOLLIS Britton. Monroe County, *Prof. Porter.*

863 A. PARVIFLORA Ait. North end of Glenburn Pond.

SANGUISORBA L. (Burnet)

864 S. CANADENSIS L. (Canadian Burnet.) Paupack Falls, Hawley, *Dr. L. W. Ross.*

ROSA L. (Rose)

865 R. BLANDA Ait. Near Speedway of Elmhurst Boulevard.
866 R. CINNAMOMEA L. (Cinnamon Rose.) Factoryville.
867 R. CANINA L. (Dog Rose.) One plant toward river at Forty Fort; by road at base of cliff opposite Campbell's Ledge, Thurston.
868 R. RUBIGINOSA L. (Sweetbrier, Eglantine.) Common.
869 R. CAROLINA L. Lake Henry, swamp islands.
870 R. HUMILIS Marsh. Frequent on mountains.

PRUNUS L. (Plum, Cherry, Etc.)

871 P. SEROTINA Reichenb. (Wild Black Cherry.) Abundant.
872 P. VIRGINIANA L. (Choke Cherry.) Common.
873 P. PENNSYLVANICA L. (Wild Red, Bird, Fire or Pin Cherry.) Frequent.
874 P. INSTITITIA L. (Bullace Plum.) Frequent colonies at old farms.
875 P. CUNEATA Raf. Birdseye, Bald Mount. Not common.
876 P. PUMILA L. (Sand Cherry.) Lackawaxen.
877 P. AVIUM L. (Sweet Cherry, Mazzard.) Spontaneous from cultivated trees.
878 P. CERASUS L. (Sour or Morello Cherry.) Frequent escape.
879 P. AMERICANA Marsh. (Wild Plum.) North Chinchilla, near Griffin Reservoir.
880 P. PERSICA Stokes. (Peach.) Spontaneous.

LEGUMINOSAE (Pulse Family)

GLEDITSIA L. (Honey Locust)

881 G. TRIACANTHOS L. (Honey Locust.) One tree along Susquehanna at South Wilkes-Barre, S. Washington Avenue, Scranton. Uncommon.

CASSIA L. (Senna)

882 C. MARILANDICA L. (Wild Senna.) Old Forge, old canal at Nanticoke. Rare.
883 C. CHAMAECRISTA L. (Partridge Pea.) Wyoming, Coxton.
884 C. NICTITANS L. (Wild Sensitive Plant.) Frequent.

BAPTISIA Vent. (False Indigo)

885 B. TINCTORIA R. Br. (Wild Indigo.) Abundant in dry woods.

CROTALARIA L. (Rattle-Box)

886 C. SAGITTALIS L. Susquehanna, *Prof. James A. Graves;* Coxton, *C. H. Scharar.*

LUPINUS L. (Lupine)

887 L. PERENNIS L. Common.

TRIFOLIUM L. (Clover)

888 T. ARVENSE L. (Rabbit-Foot Clover.) Abundant at Tunkhannock, Taylor, base of Lake Scranton dam, base of Campbell's Ledge.
889 T. INCARNATUM L. (Crimson Clover.) Coxton, Wyoming.
890 T. PRATENSE L. (Red Clover.) Common.
891 T. REPENS L. (White Clover.) Common.

892 T. HYBRIDUM L. (Alsike Clover.) Common.
893 T. AGRARIUM L. (Yellow or Hop Clover.) Frequent.
894 T. PROCUMBENS L. (Low Hop Clover.) Frequent.

MELILOTUS Hill. (Melilot, Sweet Clover)

895 M. OFFICINALIS Lam. (Yellow Sweet Clover.) O. and W. Yard, Scranton; D. and H. tracks near Carbon Street. Not common.
896 M. ALBA Desr. (White Sweet Clover.) Occasional through the two valleys.

MEDICAGO L. (Medick)

897 M. SATIVA L. (Alfalfa.) Not infrequent.
898 M. LUPULINA L. (Black Medick.) Common.

TEPHROSIA Pers. (Hoary Plea)

899 T. VIRGINIANA Pers. (Goat's Rue.) Campbell's Ledge, Penobscot Mountain.

ROBINIA L. (Locust)

900 R. PSEUDO-ACACIA L. (Common Locust.) Frequent, especially along streams.
901 R. HISPIDA L. (Rose Acacia.) Occasional escape.

ASTRAGALUS L. (Milk Vetch)

902 A. CANADENSIS L. Brandt, Susquehanna County, *Dr. Lloyd Ross.*

DESMODIUM Desv. (Tick Trefoil)

903 D. NUDIFLORUM DC. Campbell's Ledge.
904 D. GRANDIFLORUM DC. Penobscot Knob.
905 D. ROTUNDIFOLIUM DC. Campbell's Ledge.
906 D. CANESCENS DC. Birdseye.
907 D. BRACTEOSUM DC. Campbell's Ledge.
908 D. DILLENII Darl. Campbell's Ledge.
909 D. PANICULATUM DC. Frequent on Wyoming Valley mountains.
910 D. CANADENSE DC. Birdseye.
911 D. RIGIDUM DC. Campbell's Ledge.
912 D. OBTUSUM DC. Susquehanna.
913 D. MARILANDICUM DC. Susquehanna.

LESPEDEZA Michx. (Bush Clover)

914 L. PROCUMBENS Michx. Campbell's Ledge.
915 L. REPENS Bart. Campbell's Ledge.
916 L. VIOLACEA Pers. Frequent.
917 L. VIRGINICA Britton. Eddy Creek.
918 L. FRUTESCENS Britton. Campbell's Ledge.
919 L. HIRTA Hornem. Frequent.
920 L. CAPITATA Michx. Penobscot.

VICIA L. (Vetch, Tare)

921 V. SATIVA L. (Spring Vetch.) Near Nay Aug Park.
922 V. TETRASPERMA Moench. Dunmore, *Prof. R. N. Davis.*
923 V. CRACCA L. Moosic Lake.
924 V. CAROLINIANA Walt. Gravel Pond.

925 V. AMERICANA Muhl. Wyoming.
926 V. ARIETINUM L. (Chick Pea.) Linden Street dump. Identified by *Dr. J. K. Small.**

LATHYRUS L. (Vetchling, Everlasting Pea)

927 L. PALUSTRIS L. Kingston, *Prof. Thurston.*
928 L. PALUSTRIS, VAR. MYRTIFOLIUS Gray. Monroe and Luzerne Counties. *Prof. Porter.*
929 L. VENOSUS Muhl. Wyoming.
930 L. OCHROLEUCUS Hook. Gravel Pond.

APIOS Ludwig. (Groundnut, Wild Bean)

931 A. TUBEROSA Moench. Wyoming, Taylor along bank of D., L. and W.

AMPHICARPA Ell. (Hog Peanut)

932 A. MONOICA Ell. Common.

LINACEAE (Flax Family)

LINUM L. (Flax)

933 L. USITATISSIMUM L. (Common Flax.) Occasional along railroads.
934 L. SULCATUM Riddell. Campbell's Ledge. Rare.
935 L. VIRGINIANUM L. Abundant on high points.

OXALIDACEAE (Wood Sorrel Family)

OXALIS L. (Wood Sorrel)

936 O. ACETOSELLA L. (Common Wood Sorrel.) Common.
937 O. VIOLACEA L. (Violet Wood Sorrel.) Near Stroudsburg, Tilbury Knob.
938 O. STRICTA L. Common.
939 O. CORNICULATA L. (Lady's Sorrel.) Near Glenburn, *Carl H. H. Baumann.*
940 O. REPENS Thunb. Clay Avenue, Scranton, in the greenhouse of Mrs. H. M. Boies. Morel's greenhouses, Green Ridge.

GERANIACEAE (Geranium Family)

GERANIUM L. (Cranesbill)

941 G. MACULATUM L. Common.
942 G. ROBERTIANUM L. (Herb Robert.) Common.
943 G. CAROLINIANUM L. Wyoming, Plainsville. Occasional.
944 G. BICKNELLI Britton. Rocky Glen, *C. H. Scharar.*
945 G. PUSILLUM Burm. Scranton Post Office grounds, Valentine Bliss farm, Waverly.

ERODIUM L'Her. (Storksbill)

946 E. CICUTARIUM L'Her. Kingston flats. Rare.

RUTACEAE (Rue Family)

ZANTHOXYLUM L. (Prickly Ash)

947 Z. AMERICANUM Mill. (Northern Prickly Ash, Toothache Tree.) Bank along reservoir at Chinchilla. One mile west of Factoryville.

PTELEA L. (Hop Tree)

948 P. TRIFOLIATA L. Near Susquehanna, *Prof. J. A. Graves.*

SIMARUBACEAE (Quassia Family)

AILANTHUS Desf. (Tree of Heaven)

949 A. GLANDULOSA Desf. A frequent escape.

POLYGALACEAE (Milkwort Family)

POLYGALA L. (Milkwort)

950 P. PAUCIFOLIA Willd. (Fringed Polygala.) Common.
951 P. SANGUINEA L. Near Throop, abundant near Elmhurst reservoir, Waverly.
952 P. NUTTALLII T. & G. Pike County, *Prof. Porter.*
953 P. VERTICILLATA L. Campbell's Ledge, near Taylor.
954 P. VERTICILLATA, VAR. AMBIGUA Wood. Mocanaqua, *Dudley.*

EUPHORBIACEAE (Spurge Family)

ACALYPHA L. (Three-Seeded Mercury)

955 A. VIRGINICA L. Frequent.

RICINUS L. (Castor-Oil Plant)

956 R. COMMUNIS L. Linden Street dump, Scranton. Spontaneous.

EUPHORBIA L. (Spurge)

957 E. PRESLII Guss. Frequent.
958 E. MACULATA L. (Milk Purslane.) Very common.
959 E. COROLLATA L. (Flowering Spurge.) Wyoming.
960 E. DARLINGTONII Gray. Herrick Center, *H. D. Dunn.*
961 E. CYPARISSIAS L. (Cypress Spurge.) Near Gravel Pond, Nicholson. Waverly.
962 E. PEPLUS L. (Petty Spurge.) Swetland Street, Scranton.
963 E. LATHYRUS L. (Caper Spurge, Mole Plant.) Uniondale.

CALLITRICHACEAE (Water Starwort Family)

CALLITRICHE L. (Water Starwort)

964 C. DEFLEXA, VAR. AUSTINI Hegelm. Tobyhanna Mills, *Prof. Porter.*
965 C. PALUSTRIS L. Susquehanna, J. A. Graves.
966 C. HETEROPHYLLA Pursh. Lake Henry, Pocono springs, Tobyhanna.

LIMNANTHACEAE (False Mermaid Family)

FLOERKEA Willd. (False Mermaid)

967 F. PROSERPINACOIDES Willd. Under Kingston pond hole bridge.

ANACARDIACEAE (Cashew Family)

RHUS L. (Sumach)

968 R. TYPHINA L. (Staghorn Sumach.) Very common.

969 R. GLABRA L. (Smooth Sumach.) Common.

970 R. COPALLINA L. (Dwarf Sumach.) Less common than the above.

971 R. VERNIX L. (Poison Elder, Sumach or Dogwood.) Grows in swamps. Found at Atherton's Pond, Lily Lake, near Big Birdseye.

972 R. TOXICODENDRON L. (Poison Ivy, Poison Oak.) Common.

AQUIFOLIACEAE (Holly Family)

ILEX L. (Holly)

973 I. MONTICOLA Gray. Lake Scranton, Moosic Lake, Elk Mountain.

974 I. MONTICOLA, VAR. MOLLIS Britton. North end of Nay Aug Tunnel. Lehigh Pond.

975 I. VERTICILLATA Gray. Lake Scranton, Big Birdseye.

976 I. VERTICILLATA, VAR. CYCLOPHYLLA Robinson. Monroe and Luzerne, *Prof. Porter.*

977 I. LAEVIGATA Gray. Lake Winola. Not common.

NEMOPANTHUS Raf. (Mountain Holly)

978 N. MUCRONATA Trel. Common in damp, cool mountain woods.

CELASTRACEAE (Staff Tree Family)

EVONYMUS L. (Spindle Tree)

979 E. ATROPURPUREUS Jacq. (Burning Bush, Waahoo.) Tannersville.

980 E. EUROPAEUS L. (European Spindle Tree.) Nicholson.

CELASTRUS L. (Staff Tree, Shrubby Bitter-Sweet)

981 C. SCANDENS L. (Waxwork, Climbing Bitter-Sweet.) Frequent in both valleys.

STAPHYLEACEAE (Bladder Nut Family)

STAPHYLEA L. (Bladder Nut)

982 S. TRIFOLIA L. (American Bladder Nut.) Campbell's Ledge, Bowman's creek, near Stroudsburg. Rare.

ACERACEAE (Maple Family)

ACER L. (Maple)

983 A. PENNSYLVANICUM L. (Striped Maple.) Common on mountains.

984 A. SPICATUM Lam. (Mountain Maple.) Clarks Summit, Archbald, Bald Mount.

985 A. SACCHARUM Marsh. (Sugar or Rock Maple.) Common.
986 A. SACCHARUM, VAR. NIGRUM Britton. (Black Sugar Maple.) Peck farm, Moscow.
987 A. SACCHARINUM L. (White or Silver Maple.) Common along Susquehanna.
988 A. RUBRUM L. (Red or Swamp Maple.) Common.
989 A. NEGUNDO L. (Box Elder.) Drinker Street, Dunmore, Summit Lake. Not indigenous.

SAPINDACEAE (Soapberry Family)

AESCULUS L. (Horse Chestnut)

990 A. HIPPOCASTANUM L. (Common Horse Chestnut.) Common in cultivation. Occasional escape.

BALSAMINACEAE (Touch-Me-Not-Family)

IMPATIENS L. (Balsam, Jewelweed)

991 I. PALLIDA Nutt. Common along Susquehanna.
992 I. BIFLORA Walt. (Spotted Touch-Me-Not.) Common.

RHAMNACEAE (Buckthorn Family)

CEANOTHUS L. (Red-Root)

993 C. AMERICANUS L. (New Jersey Tea.) Common in dry woods.

VITACEAE (Vine Family)

PSEDERA Neck. (Virginia Creeper, Woodbine)

994 P. QUINQUEFOLIA Greene. Common.

VITIS L. (Grape)

995 V. LABRUSCA L. (Northern Fox Grape.) Waverly. Not rare.
996 V. AESTIVALIS Michx. (Summer or Pigeon Grape.) Opposite Plymouth. More common in the Wyoming Valley than elsewhere.
997 V. BICOLOR Le Conte. (Summer Grape.) Monroe County, *Prof. Porter.*
998 V. CORDIFOLIA Michx. (Frost or Chicken Grape.) Common.
999 V. VULPINA L. (River-Bank or Frost Grape.) Along the Susquehanna.

TILIACEAE (Linden Family)

TILIA L. (Linden, Basswood)

1000 T. AMERICANA L. (Basswood.) Common.
1001 T. MICHAUXII Nutt. Opposite Laurel Line power plant.
1002 T. HETEROPHYLLA Vent. Taylor woods, Dunmore. Identified by Dr. Sargent.

MALVACEAE (Mallow Family)

ABUTILON Mill. (Indian Mallow)

1003 A. THEOPHRASTI Medic. (Velvet Leaf.) Falls, along Susquehanna, Dunmore, West Scranton. Occasional.

ALTHAEA L. (Marsh Mallow)

1004 A. ROSEA Cav. (Hollyhock.) Frequently persists for several years.

MALVA L. (Mallow)

1005 M. ROTUNDIFOLIA L. (Common Mallow, Cheeses.) Common.
1006 M. VERTICILLATA L. La Plume.
1007 M. SYLVESTRIS L. (High Mallow.) Susquehanna, J. A. Graves.
1008 M. MOSCHATA L. (Musk Mallow.) Occasional in fields.
1009 M. ALCEA L. Waverly.

HYPERICACEAE (Saint John's Wort Family)

HYPERICUM L. (St. John's Wort)

1010 H. ASCYRON L. (Great St. John's Wort.) Tunkhannock, Coxton.
1011 H. PERFORATUM L. (Common S.) Common.
1012 H. PUNCTATUM Lam. Common.
1013 H. ADPRESSUM Bart. Freytown, near Moscow.
1014 H. ELLIPTICUM Hook. Elmhurst.
1015 H. MUTILUM L. Common.
1016 H. CANADENSE L. Lake Winola, Pocono Summit.
1017 H. GENTIANOIDES BSP. (Orange Grass, Pineweed.) Dry fields in Wyoming Valley.
1018 H. VIRGINICUM L. (Marsh S.) Common.

CISTACEAE (Rockrose Family)

HELIANTHEMUM Mill. (Rockrose)

1019 H. CANADENSE Michx. (Frostweed.) Campbell's Ledge, Fairview.

LECHEA L. (Pinweed)

1020 L. VILLOSA Ell. Wyoming.
1021 L. MINOR L. Campbell's Ledge.
1022 L. INTERMEDIA Leggett. Common.
1023 L. RACEMULOSA Lam. Penobscot Knob.

VIOLACEAE (Violet Family)

VIOLA L. (Violet)

1024 V. PEDATA L. (Bird-Foot Violet.) Tilbury Knob, Pocono Knob. Local, rare. Not reported in Lackawanna Valley.

1025 V. CUCULLATA Ait. (Common Blue Violet.) Very common. A white variety of this species has been collected at Connell Junction and elsewhere. Another apparent variety of the same species collected on the Scranton golf grounds is possibly the V. septemlobata of Brainerd.

1026 V. PAPILIONACEA Pursh. Eddy Creek. Common.

1027 V. PALMATA L. Frequent about Scranton.

1028 V. TRILOBA Schwein. Woods near Taylor.

1029 V. SORORIA Willd. Lake Winola.

1030 V. HIRSUTULA Brainerd. Lake Winola, West Mountain.

1031 V. FIMBRIATULA Sm. Common on dry, open hillsides.

1032 V. FIMBRIATULA FORM PALMATA Br. Moosic Lake.*

1033 V. FIMBRIATULA FORM CUCULLATA Br. Campbell's Ledge.*

1034 V. SELKIRKII Pursh. (Great-Spurred Violet.) Mount Ararat, Griffin reservoir gorge, woods opposite Heckman's in Waverly.

1035 V. LANCEOLATA L. (Lance-Leaved Violet.) Foot of Campbell's Ledge, Dunmore reservoir, Moosic Lake.

1036 V. PRIMULIFOLIA L. (Primrose-Leaved Violet.) Big Birdseye.

1037 V. PALLENS Br. Common in marshy places.

1038 V. BLANDA Willd. Common in wet woods.

1039 V. INCOGNITA Br. Chinchilla toward Griffin reservoir. Not rare. Earlier than blanda, on dry banks of streams or woods.

1040 V. ROTUNDIFOLIA Michx. (Early Yellow Violet.) Common in moist woods.

1041 V. ODORATA L. (English or Sweet Violet.) An occasional escape.

1042 V. PUBESCENS Ait. (Downy Yellow Violet.) Frequent.

1043 V. SCABRIUSCULA Schwein. (Smooth Yellow Violet.) Common in Abingtons and in Spring Brook.

1044 V. CANADENSIS L. (Canada Violet.) Common.

1045 V. STRIATA Ait. La Plume, Nicholson, near Lackawanna River at Taylor, near west end of Wilkes-Barre bridge.

1046 V. CONSPERSA Reichenb. (Dog Violet.) Common. A white form of this species is frequently seen.

1047 V. ROSTRATA Pursh. (Long-Spurred Violet.) Common in Lackawanna Valley.

1048 V. TRICOLOR L. (Pansy.) Old gardens and fields.

1049 V. ARVENSIS Murr. (Wild Pansy.) Wyoming.

1050 V. RAFINESQUII Greene. (Wild Pansy.) Along roadside at base of Campbell's Ledge.

NOTE.—A variety of the V. cucullata, with blotched petals, colonized on the river bank opposite Plymouth, under observation by Prof. Thurston for ten years, and for a longer period by the writer, is persistent and spreading. It is also found on the mountain opposite Campbell's Ledge and at various places along the river. I have taken the liberty of naming it

1051 V. CUCULLATA, VAR. THURSTONI.*

CACTACEAE (Cactus Family)

OPUNTIA Mill. (Prickly Pear)

1052 O. VULGARIS Mill. Mosier Knob near Stroudsburg.

THYMELAEACEAE (Mezereum Family)

DIRCA L. (Leatherwood, Moosewood)

1053 D. PALUSTRIS L. Spring Brook, frequent. Not common elsewhere.

LYTHRACEAE (Loosestrife Family)

DECODON J. F. Gmel. (Swamp Loosestrife)

1054 D. VERTICILLATUS Ell. (Water Willow.) Pond near Hawley, Atherton's Pond, Crooked Lake.

LYTHRUM L. (Loosestrife)

1055 L. ALATUM Pursh. Rocky Glen, *C. H. Scharar.*

1056 L. SALICARIA L. (Spiked Loosestrife.) Hawley, *Dr. Ross.* Poyntelle, Lily Lake.

CUPHEA P. Br.

1057 C. PETIOLATA Koehne. (Clammy Cuphea.) Eastern foot of Campbell's Ledge.

ONAGRACEAE (Evening Primrose Family)

LUDWIGIA L. (False Loosestrife)

1058 L. ALTERNIFOLIA L. (Seedbox.) East foot of Campbell's Ledge.

1059 L. PALUSTRIS Ell. (Water Purslane.) Lake Henry, Kingston pond holes.

EPILOBIUM L. (Willow-Herb)

1060 E. ANGUSTIFOLIUM L. (Great Willow-Herb, Fireweed.) Common.

1061 E. DENSUM Raf. Pocono Summit. Local.

1062 E. COLORATUM Muhl. Common.

1063 E. ADENOCAULON Haussk. Big Birdseye. Not frequent.

OENOTHERA L. (Evening Primrose)

1064 O. BIENNIS L. Common.

1065 O. PUMILA L. Well distributed.

1066 O. FRUTICOSA L. (Sundrops.) Frequent.

GAURA L.

1067 G. BIENNIS L. Frequent along the Susquehanna.

CIRCAEA L. (Enchanter's Nightshade)

1068 C. LUTETIANA L. Common.

1069 C. ALPINA L. Common about mountain swamps.

HALORAGIDACEAE (Water Milfoil Family)

MYRIOPHYLLUM L. (Water Milfoil)

1070 M. SPICATUM L. Kingston pond hole.

1071 M. HUMILE Morong. Long pond in Monroe County, *Prof. Porter.*

1072 M. TENELLUM Bigel. Lake Poyntelle, *H. D. Dunn.*

PROSERPINACA L. (Mermaid-Weed)

1073 P. PALUSTRIS L. Long pond. Luzerne County, *A. A. Heller.*

ARALIACEAE (Ginseng Family)

ARALIA L.

1074 A. SPINOSA L. (Hercules Club.) Occasional escape. Big colony along Fleetville road, Waverly.

1075 A. RACEMOSA L. (Spikenard.) Common in rich woodlands.
1076 A. HISPIDA Vent. (Bristly Sarsaparilla.) Common.
1077 A. NUDICAULIS L. (Wild Sarsaparilla.) Common throughout.

PANAX L. (Ginseng)

1078 P. QUINQUEFOLIUM L (Ginseng.) Bank of gorge at North Chinchilla, Lake Winola, Ararat, Elk Hills. Rare.
1079 P. TRIFOLIUM L. (Dwarf Ginseng, Groundnut.) Rich Damp woods. Occasional.

UMBELLIFERAE (Parsley Family)

SANICULA L. (Black Snakeroot)

1080 S. MARILANDICA L. Occasional.
1081 S. CANADENSIS L. Common.

HYDROCOTYLE L. (Water Pennywort)

1082 H. AMERICANA L. Common near water or marshes.

CHAEROPHYLLUM L.

1083 C. PROCUMBENS Crantz. Abundant along Susquehanna near Wilkes-Barre.

OSMORHIZA Raf. (Sweet Cicely)

1084 O. CLAYTONI Clarke. (Hairy Sweet Cicely.) Stroudsburg. Kingston.
1085 O. LONGISTYLIS DC. (Smooth Sweet Cicely.) Not infrequent.
1086 O. DIVARICATA Nutt. Clark's Summit.

CONIUM L. (Poison Hemlock)

1087 C. MACULATUM L. Occasional in waste places.

AEGOPODIUM L. (Goutweed)

1088 A. PODAGRARIA L. Waverly. Not an infrequent escape.

CICUTA L. (Water Hemlock)

1089 C. MACULATA L. (Spotted Cowbane, Musquash Root.) Lake Winola. Frequent.
1090 C. BULBIFERA L. Gravel pond. Common along borders of ponds.

CARUM L. (Caraway)

1091 C. CARVI L. Frequent.

SIUM L. (Water Parsnip)

1092 S. CICUTAEFOLIUM Schrank. Kingston pond holes.
1093 S. CICUTAEFOLIUM, VAR. CARSONII Durand. Pocono Summit, *Porter*.

CRYPTOTAENIA DC. (Honewort)

1094 C. CANADENSIS DC. Occasional.

ZIZIA Koch.

1095 Z. AUREA Koch. Common about Scranton.
1096 Z. CORDATA DC. Laflin.

FOENICULUM Hill. (Fennel)

1097 F. VULGARE Hill. Near Nay Aug Park.

PIMPINELLA L.

1098 P. SAXIFRAGA L. Paradise Valley. Not common.

TAENIDIA Drude.

1099 T. INTEGERRIMA Drude. Common.

CORIANDRUM L. (Coriander)

1100 C. SATIVUM L. Naomi Pines, *Prof. R. N. Davis.*

THASPIUM Nutt. (Meadow Parsnip)

1101 T. BARBINODE Nutt. Susquehanna.

PASTINACA L. (Parsnip)

1102 P. SATIVA L. Common.

LEVISTICUM Hill. (Lovage)

1103 L. OFFICINALE Koch. Near Elkdale. Waverly.

HERACLEUM L. (Cow Parsnip)

1104 H. LANATUM Michx. Frequent.

IMPERATORIA L.

1105 I. OSTRUTHIUM L. (Masterwort.) Near Naomi Pines, *Prof. R. N. Davis.*

CONIOSELINUM Fisch. (Hemlock Parsley)

1106 C. CHINENSE BSP. Cadosia, O. and W. railroad near river.

ANGELICA L.

1107 A. VILLOSA BSP. Mountain Park, Birdseye.

1108 A. ATROPURPUREA L. Mount Pocono.

DAUCUS L. (Carrot)

1109 D. CAROTA L. Pest to farmers.

CORNACEAE. (Dogwood Family)

CORNUS L. (Cornel, Dogwood)

1110 C. CANADENSIS L. (Dwarf Cornel, Bunchberry.) Common in damp cold woods.

1111 C. FLORIDA L. (Flowering Dogwood.) Frequent in woods.

1112 C. CIRCINATA L'Her. (Round-Leaved Cornel.) Hawley, Elk Mountain.

1113 C. AMOMUM Mill. (Silky Cornel, Kinnikinnik.) Frequent in low thickets.

1114 C. STOLONIFERA Michx. (Red-Osier Dogwood.) Common in wet places.

1115 C. PANICULATA L'Her. Near Dunmore Cemetery, Duryea. Rather frequent.

1116 C. ALTERNIFOLIA L. Frequent.

NYSSA L. (Pepperidge)

1117 N. SYLVATICA Marsh. (Black Gum.) Rather frequent in moist woodland.

ERICACEAE (Heath Family)

CHIMAPHILA Pursh. (Pipsissewa)

1118 C. UMBELLATA Nutt. (Prince's Pine.) Near Dunmore, Lake Scranton gorge. Occasional in dry woods.

1119 C. MACULATA Pursh. (Spotted Wintergreen.) Clark's Summit, Lake Winola.

PYROLA L. (Shin Leaf)

1120 P. SECUNDA L. Hawley.

1121 P. CHLORANTHA Sw. Bear Swamp, Susquehanna, *Prof. J. A. Graves.* Lake Winola.

1122 P. ELLIPTICA Nutt. Frequent.

1123 P. AMERICANA Sweet. Not rare.

MONOTROPA L. (Indian Pipe, Pinesap)

1124 M. UNIFLORA L. (Indian Pipe, Corpse Plant.) Common.

1125 M. HYPOPITYS L. (Pinesap, False Beechdrops.) Clarks Summit, Sugar Loaf, Lynn. Rare.

LEDUM L. (Labrador Tea)

1126 L. GROENLANDICUM Oeder. Lehigh pond, cold mountain swamps, near southern limit.

RHODODENDRON L.

1127 R. VISCOSUM Torr. (Clammy Azalea, White Swamp Honeysuckle.) Lehigh pond, Tobyhanna, Tannersville. Not common.

1128 R. NUDIFLORUM Torr. (Purple Azalea, Pinxter Flower.) Common.

1129 R. CANESCENS G. Don. Dunmore reservoir. Occasional.

1130 R. CANADENSE BSP. (Rhodora.) Marshwood, Moosic Lake, near Williams Bridge reservoir. Frequent on the Pocono.

1131 R. MAXIMUM L. (Great Laurel.) Frequent along mountain streams.

MENZIESIA Sm.

1132 M. PILOSA Pers. "Northeastern Pennsylvania, in collection," *Dr. Porter.* Rare.

KALMIA L. (American Laurel)

1133 K. LATIFOLIA L. (Mountain Laurel.) Common.

1134 K. ANGUSTIFOLIA L. (Sheep Laurel.) Abundant.

1135 K. POLIFOLIA Wang. (Pale Laurel.) Lake Henry, Lehigh pond, near southern limit.

ANDROMEDA L.

1136 A. GLAUCOPHYLLA Link. (Bog Rosemary.) Lehigh pond, near its southern limit.

LYONIA Nutt.

1137 L. LIGUSTRINA DC. (Male Berry.) Characteristic shrub of the region.

CHAMAEDAPHNE Moench. (Leather Leaf, Cassandra)

1138 C. CALYCULATA Moench. Common about bogs.

EPIGAEA L. (Trailing Arbutus)

1139 E. REPENS L. (Mayflower.) Frequent throughout except in the deciduous forests.

GAULTHERIA L. (Aromatic Wintergreen)

1140 G. PROCUMBENS L. (Teaberry.) Common.

CHIOGENES Salisb. (Creeping Snowberry)

1141 C. HISPIDULA T. and G. Naomi Pines, Pocono Station. Dunn Farm, Susquehanna County, *H. D. Dunn.*

GAYLUSSACIA HBK. (Huckleberry)

1142 G. FRONDOSA T. and G. (Dangleberry.) Pocono Knob.

1143 G. BACCATA C. Koch. (Black Huckleberry.) Common.

VACCINIUM L. (Blueberry, Cranberry)

1144 V. STAMINEUM L. (Deerberry.) Common.

1145 V. PENNSYLVANICUM Lam. (Low Sweet Blueberry.) Common.

1146 V. PENNSYLVANICUM, VAR. NIGRUM Wood. (Low Black Blueberry.) Common on mountains.

1147 V. CANADENSE Kalm. Moosic Lake, Lehigh Pond, Naomi Pines. Near southern limit.

1148 V. VACILLANS Kalm. (Late Low Blueberry.) Common.

1149 V. CORYMBOSUM Kalm. (High or Swamp Blueberry.) Frequent in marshes.

1150 V. CORYMBOSUM, VAR. PALLIDUM Gray. Campbell's Ledge.

1151 V. ATROCOCCUM Heller. Mount Pocono.

1152 V. OXYCOCCOS L. (Small Cranberry.) Tobyhanna, Atherton's pond.

1153 V. MACROCARPON Ait. (Large or American Cranberry.) Moosic Lake, Atherton's Pond, Lake Henry, Crooked Lake.

PRIMULACEAE (Primrose Family)

LYSIMACHIA L. (Loosestrife)

1154 L. QUADRIFOLIA L. Common in woods.

1155 L. TERRESTRIS BSP. Common on pond margins.

1156 L. NUMMULARIA L. (Moneywort.) Not frequent except in Abingtons.

1157 L. THYRSIFLORA L. (Tufted Purple Loosetrife.) Wyoming Swamp. Lake Winola.

STEIRONEMA Raf.

1158 S. CILIATUM Raf. Not infrequent.

TRIENTALIS L. (Chickweed Wintergreen)

1159 T. AMERICANA Pursh. (Star Flower.) Common.

OLEACEAE (Olive Family)

FRAXINUS L. (Ash)

1160 F. AMERICANA L. (White Ash.) Frequent.

1161 F. PENNSYLVANICA Marsh. (Red Ash.) Hawley, along Paupack, *Dr. L. W. Ross.*

1162 F. PENNSYLVANICA, VAR. LANCEOLATA Sargt. (Green Ash.) Hawley, along Paupack, *Dr. Lloyd W. Ross.*

1163 F. NIGRA Marsh. (Black Ash.) Factoryville. States pond, near Moscow, reported by *Wesley Evans.*

LIGUSTRUM L. (Privet)

1164 L. VULGARE L. (Privet.) Occasional escape.

GENTIANACEAE (Gentian Family)

SABATIA Adans.

1165 S. ANGULARIS Pursh. Above Berwick, *Prof. Heller.*

GENTIANA L. (Gentian)

1166 G. CRINITA Froel. (Fringed Gentian.) Opposite Tilbury Knob, *Christopher Wren.* Hawley, near canal, Campbell's Ledge. Spring Brook, *G. L. Newbold.* Green Run, *Judge Archbald.* Near Fleetville, *C. H. Welles, Esq.*

1167 G. QUINQUEFOLIA L. Widely distributed.

1168 G. SAPONARIA L. (Soapwort Gentian.) Mountain Inn Road, *Prof. Dudley.*

1169 G. ANDREWSII Griseb. (Closed Gentian.) Frequent in Lackawanna County.

1170 G. LINEARIS Froel. Pocono Summit.

BARTONIA Muhl.

1171 B. VIRGINICA BSP. Birdseye. Occasional.

MENYANTHES Hill. (Buckbean)

1172 M. TRIFOLIATA L. Bogs and shallow water on mountains. Moosic Lake, Lehigh pond.

APOCYNACEAE (Dogbane Family)

VINCA L. (Periwinkle)

1173 V. MINOR L. (Common Periwinkle, "Myrtle.") A frequent escape along roads.

APOCYNUM L. (Dogbane, Indian Hemp)

1174 A. ANDROSAEMIFOLIUM L. (Spreading Dogbane.) Common.

1175 A. CANNABINUM L. (Indian Hemp.) Abundant along Susquehanna, Lake Scranton.

ASCLEPIADACEAE (Milkweed Family)

ASCLEPIAS L. (Milkweed)

1176 A. TUBEROSA L. (Butterfly-Weed, Pleurisy Root.) Spring Brook, Campbell's Ledge.

1177 A. PURPURASCENS L. (Purple Milkweed.) Monroe County, *Prof. Porter.*

1178 A. INCARNATA L. (Swamp Milkweed.) Common.
1179 A. SYRIACA L. (Common Milkweed.) Very common.
1180 A. AMPLEXICAULIS Sm. Wyoming, Taylor, along raidroad.
1181 A. PHYTOLACCOIDES Pursh. (Poke Milkweed.) Lake Winola. Frequent.
1182 A. VARIEGATA L. Campbell's Ledge. Rare.
1183 A. QUADRIFOLIA Jacq. Occasional in dry woods.
1184 A. VERTICILLATA L. Campbell's Ledge, Penobscot. Apparently rare.

CONVOLVULACEAE (Convolvulus Family)

IPOMOEA L. (Morning Glory)

1185 I. COCCINEA L. Common escape in waste places.
1186 I. COCCINEA, VAR. HEDERIFOLIA Gray. Susquehanna, *Prof. Graves.*
1187 I. PURPUREA Roth. (Common Morning Glory.) Common escape in waste places.

CONVOLVULUS L. (Bindweed)

1188 C. SPITHAMAEUS L. Frequent.
1189 C. SEPIUM L. West Linden street, Coxton.
1190 C. ARVENSIS L. Occasional.

CUSCUTA L. (Dodder)

1191 C. OBTUSIFLORA HBK. Little Birdseye.
1192 C. GRONOVII Willd. Wyoming.
1193 C. COMPACTA Juss. (Compact Dodder.) Pocono, *Dr. J. W. Harshberger.*

POLEMONIACEAE (Polemonium Family)

PHLOX L.

1194 P. PANICULATA L. Tobyhanna.
1195 P. MACULATA L. (Wild Sweet William.) Ransom, near river.
1196 P. DIVARICATA L. (Blue Phlox.) Beebe's Flats, Susquehanna, *Prof. Graves.*
1197 P. SUBULATA L. (Ground or Moss Pink.) Common on mountain sides.

POLEMONIUM L. (Greek Valerian)

1198 P. REPTANS L. Susquehanna, opposite Forty Fort. Rare.

HYDROPHYLLACEAE (Waterleaf Family)

HYDROPHYLLUM L. (Waterleaf)

1199 H. VIRGINIANUM L. Frequent.

BORAGINACEAE (Borage Family)

CYNOGLOSSUM L. (Hound's Tongue)

1200 C. OFFICINALE L. (Common Hound's Tongue.) Frequent
1201 C. VIRGINIANUM L. (Wild Comfrey.) Gipsy Grove, Dunmore.

LAPPULA Moench. (Stickseed)

1202 L. VIRGINIANA Greene. (Beggar's Lice.) Common in dry woods.

SYMPHYTUM L. (Comfrey)

1203 S. OFFICINALE L. (Common Comfrey.) Chinchilla, Pittston Junction.

MYOSOTIS L. (Scorpion Grass, Forget-Me-Not)

1204 M. SCORPIOIDES L. (True Forget-Me-Not.) Lake Winola.
1205 M. LAXA Lehm. Kingston pond holes.
1206 M. VIRGINICA BSP. Top of Campbell's Ledge.

MERTENSIA Roth. (Lungwort)

1207 M. VIRGINICA Link. Susquehanna, opposite Plymouth.

LITHOSPERMUM L. (Gromwell, Puccoon)

1208 L. ARVENSE L. (Corn Gromwell.) Dunmore.
1209 L. OFFICINALE L. (Common Gromwell.) Near Archbald pot hole.

ECHIUM L. (Viper's Bugloss)

1210 E. VULGARE L. (Blue Weed.) Opposite Laurel Line power plant, Moscow.

VERBENACEAE (Vervain Family)

VERBENA L. (Vervain)

1211 V. URTICAEFOLIA L. (White Vervain.) Common.
1212 V. ANGUSTIFOLIA Michx. Cherry Valley, Monroe County.
1213 V. HASTATA L. (Blue Vervain.) Very common.
1214 V. STRICTA Vent. (Hoary Vervain.) Coxton.

LABIATAE (Mint Family)

TEUCRIUM L. (Germander)

1215 T. CANADENSE L. (Wood Sage.) Pittston Junction.

TRICHOSTEMA L. (Blue Curls)

1216 T. DICHOTOMUM L. (Bastard Pennyroyal.) Waverly, Dunmore. Occasional.

SCUTELLARIA L. (Skullcap)

1217 S. LATERIFLORA L. (Mad-Dog Skullcap.) Common.
1218 S. GALERICULATA L. Frequent.

NEPETA L. (Catmint)

1219 N. CATARIA L. (Catnip.) Common.
1220 N. HEDERACEA Trevisan. (Ground Ivy, Gill-Over-the-Ground.) Common.

PRUNELLA L. (Self-Heal)

1221 P. VULGARIS L. A very common weed.

PHYSOSTEGIA Benth. (False Dragon Head)

1222 P. VIRGINIANA Benth. Daleville, along the Susquehanna.

GALEOPSIS L. (Hemp Nettle)

1223 G. TETRAHIT L. (Common Hemp Nettle.) Common about Moscow

LAMIUM L. (Dead Nettle)

1224 L. AMPLEXICAULE L. (Henbit.) Taylor woods, Dunmore.
1225 L. ALBUM L. Paradise Valley.
1226 L. MACULATUM L. Paradise Valley.

LEONURUS L. (Motherwort)

1227 L. CARDIACA L. (Common Motherwort.) Frequent.

STACHYS L. (Hedge Nettle)

1228 S. TENUIFOLIA, VAR. ASPERA Fernald. Wyoming.

SALVIA L. (Sage)

1229 S. LANCEAEFOLIA Poir. Field in North Scranton, *C. H. Scharar.*

MONARDA L. (Horse Mint)

1230 M. DIDYMA L. (Oswego Tea, Bee Balm.) Common.
1231 M. CLINOPODIA L. Near Taylor.
1232 M. FISTULOSA L. (Wild Bergamot.) Wyoming.
1233 M. FISTULOSA, VAR. RUBRA Gray. La Plume.

HEDEOMA Pers. (Mock Pennyroyal)

1234 H. PULEGIOIDES Pers. (American Pennyroyal.) Common.
1235 H. HISPIDA Pursh. Susquehanna, *Prof. J. A. Graves.*

MELISSA L. (Balm)

1236 M. OFFICINALIS L. (Common Balm.) Near Scranton, *Mrs. Buell.*

PYCNANTHEMUM Michx. (Mountain Mint)

1237 P. FLEXUOSUM BSP. Lake Sheridan.
1238 P. VIRGINIANUM D. and J. Coxton.
1239 P. INCANUM Michx. Campbell's Ledge.

THYMUS L. (Thyme)

1240 T. SERPYLLUM L. (Creeping Thyme.) Roadside at Julius Sherman's, Waverly.

CUNILA L. (Dittany)

1241 C. ORIGANOIDES Britton. (Common Dittany.) Tilbury Knob, Campbell's Ledge, near its northern limit.

LYCOPUS L. (Water Horehound)

1242 L. VIRGINICUS L. (Bugle Weed.) Not uncommon.
1243 L. EUROPAEUS L. Spring Brook.
1244 L. AMERICANUS Muhl. Big Birdseye.

MENTHA L. (Mint)

1245 M. ROTUNDIFOLIA Huds. Naomi Pines.
1246 M. SPICATA L. (Spearmint.) Common.
1247 M. PIPERITA L. (Peppermint.) Common.
1248 M. CARDIACA Gerarde. East of Waverly state road near Fleetville

1249 M. GENTILIS L. Dunmore.
1250 M. ARVENSIS, VAR. CANADENSIS Briquet. Wyoming.

COLLINSONIA L. (Horse Balm)

1251 C. CANADENSIS L. (Rich-Weed, Stone-Root.) Common in rich woods.

SOLANACEAE (Nightshade Family)

SOLANUM L. (Nightshade)

1252 S. DULCAMARA L. (Bittersweet.) Common in Lackawanna Valley.
1253 S. NIGRUM L. (Common Nightshade.) Occasional.
1254 S. CAROLINENSE L. (Horse Nettle.) Occasional along railroads and in waste places.
1255 S. ROSTRATUM Dunal. (Buffalo Bur.) Susquehanna, *Prof. J. A. Graves.*

PHYSALIS L. (Ground Cherry)

1256 P. PUBESCENS L. Ontario and Western Yard, Scranton.
1257 P. HETEROPHYLLA Nees. (Clammy Ground Cherry.) Luzerne County, *Prof. Porter.*
1258 P. HETEROPHYLLA, VAR. AMBIGUA Rydb. Monroe County, *Prof. Porter.*
1259 P. SUBGLABRATA M. and B. Near Virginia Station on Laurel Line.
1260 P. VIRGINIANA Mill. Wyoming, Campbell's Ledge.
1261 P. LANCEOLATA Michx. Bank of Spring Brook Dam, Moosic.

NICANDRA Adans. (Apple of Peru)

1262 N. PHYSALODES Pers. Near Laurel Line power plant, near Petersburg.

LYCIUM L. (Matrimony Vine)

1263 L. HALIMIFOLIUM Mill. (Common Matrimony Vine.) Along bank at Taylor Station.

DATURA L. (Jamestown Weed)

1264 D. STRAMONIUM L. Very common in waste places.
1265 D. TATULA L. (Purple Stramonium.) Not infrequent.

NICOTIANA L. (Tobacco)

1266 N. RUSTICA L. (Wild Tobacco.) Ferdinand street, North Scranton, *M. J. Kelly.* This species was cultivated by the Indians and the plants found here are probably descended from the tobacco patches of the Indians who inhabited the Capouse Meadows.

SCROPHULARIACEAE (Figwort Family)

VERBASCUM L.

1267 V. THAPSUS L. (Common Mullein.) Common.
1268 V. BLATTARIA L. (Moth Mullein.) Occasional.
1269 V. LYCHNITIS. (White Mullein.) Paradise Valley.

LINARIA Hill. (Toadflax)

1270 L. VULGARIS Hill. (Ramsted, Butter and Eggs.) Very common.
1271 L. CANADENSIS Dumont. Waymart, Archbald. Occasional.
1272 L. CYMBALARIA Mill. (Kenilworth Ivy.) Big colony at corner of Main and Dalton street, Waverly, *H. D. Dunn.*

SCROPHULARIA L. (Figwort)

1273 S. MARILANDICA L. Nicholson. Infrequent.
1274 S. LEPORELLA Bicknell. Common.

PENTSTEMON Ait. (Beard Tongue)

1275 P. HIRSUTUS Willd. Frequent.
1276 P. LAEVIGATUS Ait. Clarks Summit, Campbell's Ledge.
1277 P. LAEVIGATUS, VAR. DIGITALIS Gray. Stroudsburg, Tannersville.

CHELONE L. (Turtlehead, Snakehead)

1278 C. GLABRA L. (Balmony.) Frequent.

MIMULUS L. (Monkey Flower)

1279 M. RINGENS L. Common.

ILYSANTHES Raf. (False Pimpernell)

1280 I. DUBIA Barnhart. Wyoming, Hawley.

GRATIOLA L. (Hedge Hyssop)

1281 G. VIRGINIANA L. Common.

VERONICA L. (Speedwell)

1282 V. VIRGINICA L. (Culver's-Root.) Plymouth Narrows, *C. H. Scharar.*
1283 V. ANAGALLIS-AQUATICA L. (Water Speedwell.) Lake Winola. Not uncommon.
1284 V. AMERICANA Schwein. (American Brooklime.) Clarks Summit. Frequent.
1285 V. SCUTELLATA L. (Marsh Speedwell.) Lake Winola. Rather common.
1286 V. OFFICINALIS L. (Common Speedwell.) Common.
1287 V. SERPYLLIFOLIA L. (Thyme-Leaved Speedwell.) Common.
1288 V. PEREGRINA L. (Neckweed, Purslane Speedwell.) Kingston, Coxton.
1289 V. ARVENSIS L. (Corn Speedwell.) Luzerne Glen. Rare.

GERARDIA L.

1290 G. PEDICULARIA L. Campbell's Ledge.
1291 G. FLAVA L. (Downy False Foxglove.) Nay Aug Park, Campbell's Ledge.
1292 G. VIRGINICA BSP. (Smooth False Foxglove.) Lake Winola.
1293 G. TENUIFOLIA Vahl. (Slender Gerardia.) Campbell's Ledge.

MELAMPYRUM L. (Cow Wheat)

1294 M. LINEARE Lam. Common.

PEDICULARIS L. (Lousewort)

1295 P. CANADENSIS L. (Common Lousewort, Wood Betony.) Common.

LENTIBULARIACEAE (Bladderwort Family)

UTRICULARIA L. (Bladderwort)

1296 U. CLANDESTINA Nutt. Susquehanna. Identified by *Dr. Porter.*
1297 U. VULGARIS L. (Greater Bladderwort.) Common.
1298 U. MINOR L. (Smaller Bladderwort.) Lake Henry, *Prof. Dudley.*
1299 U. GIBBA L. Michx. Long pond, *Heller.*
1300 U. INTERMEDIA Hayne. Lake Henry, *Prof. Dudley.*
1301 U. PURPUREA Walt. Reported by *Prof. Dudley.*
1302 U. CORNUTA Michx. Starlight.

OROBANCHACEAE (Broom-Rape Family)

EPIFAGUS Nutt. (Beech-Drops, Cancer-Root)

1303 E. VIRGINIANA Bart. Common in Abingtons and in Wayne County.

CONOPHOLIS Wallr. (Squaw-Root, Cancer-Root)

1304 C. AMERICANA Wallr. Lake Winola. Rare. This station is reported by Prof. Thurston and is the only one known within our limits.

OROBANCHE L. (Broom-Rape)

1305 O. UNIFLORA L. (One-Flowered Cancer-Root.) Not infrequent.

BIGNONIACEAE (Bignonia Family)

CATALPA Scop. (Catalpa, Indian Bean)

1306 C. SPECIOSA Warder. (Catawba Tree, Cigar Tree.) Occasional escape.
1307 C. BIGNONIOIDES Walt. Becoming naturalized.

MARTYNIACEAE (Martynia Family)

MARTYNIA L. (Unicorn Plant)

1308 M. LOUISIANA Mill. Susquehanna, *Miss Mary Graves.*

ACANTHACEAE (Acanthus Family)

DIANTHERA L. (Water Willow)

1309 D. AMERICANA L. Abundant along shores of Susquehanna.

PHRYMACEAE (Lopseed Family)

PHRYMA L. (Lopseed)

1310 P. LEPTOSTACHYA L. Coxton.

PLANTAGINACEAE (Plantain Family)

PLANTAGO L. (Plantain)

1311 P. MAJOR L. (Common Plantain.) Very abundant everywhere.
1312 P. RUGELII Dcne. Frequent.
1313 P. LANCEOLATA L. (Rib Grass, English Plantain.) Common.
1314 P. ARISTATA Michx. Providence, Taylor. Occasional.
1315 P. VIRGINICA L. Campbell's Ledge.

RUBIACEAE (Madder Family)

GALIUM L. (Bedstraw, Cleavers)

1316 G. APARINE L. (Cleavers, Goose Grass.) Wyoming
1317 G. PILOSUM Ait. Campbell's Ledge, Mountain Park
1318 G. CIRCAEZANS Michx. (Wild Liquorice.) Frequent
1319 G. LANCEOLATUM Torr. (Wild Liquorice.) Common
1320 G. BOREALE L. (Northern Bedstraw.) Along Susquehanna below Pittston.
1321 G. TRIFIDUM L. Taylor woods, Dunmore.
1322 G. TINCTORIUM L. Monroe County.
1323 G. ASPRELLUM Michx. (Rough Bedstraw.) Swampy places.
1324 G. TRIFLORUM Mich. (Sweet-Scented Bedstraw.) Common

MITCHELLA L. (Partridge Berry)

1325 M. REPENS L. Frequent throughout.

CEPHALANTHUS L. (Buttonbush)

1326 C. OCCIDENTALIS L. Common about marshes and ponds.

HOUSTONIA L.

1327 H. CAERULEA L. (Bluets.) Common in two valleys.
1328 H. LONGIFOLIA Gaertn. Spring Brook.

OLDENLANDIA L.

1329 O. UNIFLORA L. Waverly, a half dozen plants.

CAPRIFOLIACEAE (Honeysuckle Family)

DIERVILLA Mill. (Bush Honeysuckle)

1330 D. LONICERA Mill. Frequent.

LONICERA L. (Honeysuckle)

1331 L. CAERULEA, VAR. VILLOSA T. and G. (Mountain Fly Honeysuckle.) Naomi Pines, *Prof. Porter.* Rare.
1332 L. CANADENSIS Marsh. (American Fly Honeysuckle.) Common.
1333 L. SEMPERVIRENS L. (Trumpet Honeysuckle.) Susquehanna.
1334 L. HIRSUTA Eat. (Hairy Honeysuckle.) Elk Mountain is the only station reported.
1335 L. DIOICA L. Frequent.

SYMPHORICARPOS Ludwig. (Snowberry)

1336 S. RACEMOSUS, VAR. LAEVIGATUS Fernald. (Snowberry.) Frequent escape from cultivation. Gravel pond.

LINNAEA L. (Twin-Flower)

1337 L. BOREALIS, VAR. AMERICANA Rehder. Big Butler pond, Susquehanna, *J. A. Graves.*

TRIOSTEUM L. (Horse Gentian)

1338 T. PERFOLIATUM L. (Tinker's Weed, Wild Coffee.) Occasional.

VIBURNUM L. (Arrow-Wood)

1339 V. ALNIFOLIUM Marsh. (Hobble-Bush.) Common.
1340 V. OPULUS, VAR. AMERICANUM Ait. (Guelder Rose.) Near Uniondale.
1341 V. ACERIFOLIUM L. (Dockmackie, Arrow-Wood.) Frequent.
1342 V. PUBESCENS Pursh. (Downy Arrow-Wood.) Mountain Park.
1343 V. DENTATUM L. Frequent.
1344 V. CASSINOIDES L. (Withe-Rod, Wild Raisin.) Frequent.
1345 V. NUDUM L. (Larger Withe Rod.) Pocono Plateau, *Dr. J. W. Harshberger.*
1346 V. LENTAGO L. (Sweet Viburnum, Nanny Berry.) Occasional in Lackawanna Valley.
1347 V. PRUNIFOLIUM L. (Black Haw.) More common in Wyoming Valley.

SAMBUCUS L. (Elder)

1348 S. CANADENSIS L. (Common Elder.) Very common.
1349 S. RACEMOSA L. (Red-Berried Elder.) Frequent.

DIPSACACEAE (Teasel Family)

DIPSACUS L. (Teasel)

1350 D. SYLVESTRIS Huds. (Wild Teasel.) Common in Abingtons; scarce in Lackawanna and Wyoming Valleys.

KNAUTIA L.

1351 K. ARVENSIS T. Coulter. Susquehanna, *Prof. Graves.*

CUCURBITACEAE (Gourd Family)

SICYOS L. (One-Seeded Bur Cucumber)

1352 S. ANGULATUS L. (Star Cucumber.) Frequent.

ECHINOCYSTIS T. and G. (Wild Balsam-Apple)

1353 E. LOBATA T. and G. Common along the Susquehanna.

CAMPANULACEAE (Bluebell Family)

SPECULARIA Fab. (Venus's Looking-Glass)

1354 S. PERFOLIATA A. DC. Common.

CAMPANULA L. (Bellflower)

1355 C. RAPUNCULOIDES L. Glenburn pond.
1356 C. AMERICANA L. (Tall Bellflower.) Near Plymouth.
1357 C. ROTUNDIFOLIA L. (Harebell.) Campbell's Ledge.
1358 C. APARINOIDES Pursh. (Marsh Bluebell.) Wyoming Swamp.

LOBELIACEAE (Lobelia Family)

LOBELIA L.

1359 L. CARDINALIS L. (Cardinal Flower.) Not infrequent.
1360 L. SIPHILITICA L. (Great Lobelia.) Wyoming, Campbell's Ledge.
1361 L. SPICATA Lam. Common.

1362 L. KALMII L. Pond Brook, Susquehanna, Poyntelle.
1363 L. INFLATA L. (Indian Tobacco.) Common.
1364 L. DORTMANNA L. (Water Lobelia.) Dunn's Pond, Susquehanna, Poyntelle, Moosic Lake.

COMPOSITAE (Composite Family)

VERNONIA Schreb. (Ironweed)

1365 V. NOVEBORACENSIS Willd. Frequent in Wyoming Valley; rare above Duryea.

EUPATORIUM L. (Thoroughwort)

1366 E. PURPUREUM L. (Joe-Pye Weed.) Frequent.
1367 E. PURPUREUM, VAR. MACULATUM Darl. Near Factoryville.
1368 E. VERBENAEFOLIUM Michx. Mount Pocono.
1369 E. SESSILIFOLIUM L. (Upland Boneset.) Campbell's Ledge.
1370 E. PERFOLIATUM L. (Thoroughwort, Boneset.) Very common.
1371 E. URTICAEFOLIUM Reichard. (White Snakeroot.) Frequent.

LIATRIS Schreb. (Button Snakeroot, Blazing Star)

1372 L. SQUARROSA Willd. Penobscot Knob.

SOLIDAGO L. (Golden Rod)

1373 S. SQUARROSA Muhl. Hanover.
1374 S. CAESIA L. Frequent.
1375 S. CAESIA, VAR. AXILLARIS Gray. Virginia Station on Laurel Line.
1376 S. LATIFOLIA L. Solomon's Gap, Birdseye.
1377 S. BICOLOR L. Common.
1378 S. HISPIDA Muhl. Birdseye.
1379 S. PUBERULA Nutt. Wyoming.
1380 S. ULIGINOSA Nutt. Gravel pond.
1381 S. SPECIOSA Nutt. Tunkhannock.
1382 S. PATULA Muhl. Susquehanna, *Prof. Graves.*
1383 S. ARGUTA Ait. Frequent on mountains.
1384 S. JUNCEA Ait. Wyoming.
1385 S. NEGLECTA T. and G. Susquehanna, *Prof. Graves.*
1386 S. ODORA Ait. (Sweet Golden-Rod.) Big Birdseye.
1387 S. ULMIFOLIA Muhl. Campbell's Ledge.
1388 S. RUGOSA Mill. Common.
1389 S. NEMORALIS Ait. Frequent.
1390 S. CANADENSIS L. Hunlock's Creek. Frequent.
1391 S. SEROTINA Ait. Common.
1392 S. RIGIDA L. Campbell's Ledge. Not reported heretofore.
1393 S. GRAMINIFOLIA Salisb. Frequent.

APLOPAPPUS Cass.

1394 A. SPINULOSUS DC. Near Nay Aug Park.

BELLIS L. (Daisy)

1395 B. PERENNIS L. (True or English Daisy.) Nay Aug Park. *Supt T. H. Phillips.**

ASTER L. (Frost Flower, Aster)

1396 A. DIVARICATUS L. Elmhurst. Common.
1397 A. MACROPHYLLUS L. Mountain Park.
1398 A. NOVAE-ANGLIAE L. Abundant in Abingtons.
1399 A. PATENS Ait. Penobscot Knob.
1400 A. PATENS, VAR. PHLOGIFOLIUS Nees. Campbell's Ledge.
1401 A. UNDULATUS L. Frequent in mountain roads.
1402 A. CORDIFOLIUS L. Common.
1403 A. CORDIFOLIUS, VAR. POLYCEPHALUS Porter. Wilkes-Barre Mountain, *Thurston.*
1404 A. LOWRIEANUS Porter. Mountain Park.
1405 A. LOWRIEANUS, VAR. LANCEOLATUS Porter. Susquehanna, *Prof. J. A. Graves.*
1406 A. LOWRIEANUS, VAR. INCISUS Porter. Susquehanna, *Prof. J. A. Graves.*
1407 A. LAEVIS L. Mountain Park.
1408 A. CONCINNUS Willd. Tunkhannock.
1409 A. ERICOIDES L. Campbell's Ledge.
1410 A. VIMINEUS Lam. Elmhurst.
1411 A. LATERIFLORUS Britton. Birdseye.
1412 A. PANICULATUS Lam. Birdseye.
1413 A. JUNCEUS Ait. Near inlet to Lake Scranton, *Prof. Davis.*
1414 A. PRENANTHOIDES Muhl. Yatesville.
1415 A. PUNICEUS L. East of Wilkes-Barre. Not common.
1416 A. UMBELLATUS Mill. Birdseye.
1417 A. INFIRMUS Michx. Mountain Park.
1418 A. LINARIIFOLIUS L. Penobscot Knob.
1419 A. ACUMINATUS Michx. Birdseye. Frequent.

ERIGERON L. (Fleabane)

1420 E. PULCHELLUS Michx. (Robin's Plantain.) Common.
1421 E. PHILADELPHICUS L. (Pink Fleabane.) Occasional.
1422 E. ANNUUS Pers. (Daisy Fleabane. Sweet Scabious.) Common.
1423 E. RAMOSUS BSP. (Daisy Fleabane.) Frequent.

SERICOCARPUS Nees. (White-Topped Aster)

1424 S. ASTEROIDES BSP. Common.

ANTENNARIA Gaertn. (Everlasting)

1425 A. CANADENSIS Greene. Pocono Plateau.
1426 A. PLANTAGINIFOLIA Richards. Common.
1427 A. NEODIOICA Greene. Port Blanchard. Frequent.
1428 A. NEGLECTA Greene. Port Blanchard. Occasional.

ANAPHALIS DC. (Everlasting)

1429 A. MARGARITACEA B. and H. (Pearly Everlasting.) Common.

GNAPHALIUM L. (Cudweed)

1430 G. POLYCEPHALUM Michx. (Common Everlasting.) Abundant.
1431 G. DECURRENS Ives. (Everlasting.) Hawley.

1432 G. ULIGINOSUM L. (Low Cudweed.) Common.
1433 G. PURPUREUM L. (Purplish Cudweed.) Mountain field west of Wyoming.

INULA L. (Elecampane)

1434 I. HELENIUM L. (Elecampane.) Frequent in Abingtons.

POLYMNIA L. (Leafcup)

1435 P. CANADENSIS L. Meshoppen.

SILPHIUM L. (Rosin-Weed)

1436 S. PERFOLIATUM L. (Cup Plant.) Uniondale.

IVA L. (Marsh Elder, Highwater-Shrub)

1437 I. XANTHIFOLIA Nutt. North Scranton, *C. H. Scharar.*

AMBROSIA L. (Ragweed)

1438 A. TRIFIDA L. (Great Ragweed.) Common along Susquehanna and lower Lackawanna.
1439 A. TRIFIDA, VAR. INTEGRIFOLIA T. and G. West Pittston, *Thurston.*
1440 A. ARTEMISIIFOLIA L. (Roman Wormwood.) Common.

XANTHIUM L. (Cocklebur, Clotbur)

1441 X. CANADENSE Mill. Common.
1442 X. ECHINATUM Murr. Susquehanna.

HELIOPSIS Pers. (Ox-Eye)

1443 H. HELIANTHOIDES Sweet. Coxton.
1444 H. SCABRA Dunal. Elk Mountains. Rare eastward.

RUDBECKIA L. (Cone-Flower)

1445 R. TRILOBA L. Wyoming along river bank.
1446 R. HIRTA L. (Yellow Daisy, Black-Eyed Susan.) Common.
1447 R. FULGIDA Ait. Wilkes-Barre field, *C. H. Scharar.*
1448 R. LACINIATA L. Frequent.

HELIANTHUS L. (Sunflower)

1449 H. ANNUUS L. (Common Sunflower.) In waste places.
1450 H. MOLLIS Lam. Alford, Susquehanna County.
1451 H. GIGANTEUS L. Coxton, Wyoming.
1452 H. MICROCEPHALUS T. and G. Penobscot.
1453 H. DIVARICATUS L. Common on mountains.
1454 H. STRUMOSUS L. Susquehanna.
1455 H. TRACHELIIFOLIUS Mill. Elmhurst.
1456 H. DECAPETALUS L. Campbell's Ledge.
1457 H. TUBEROSUS L. (Jerusalem Artichoke.) Common along Susquehanna River.

COREOPSIS L. (Tickseed)

1458 C. CARDAMINEFOLIA T. and G. Near Nay Aug Park. An occasional escape.*

BIDENS L. (Bur Marigold)

1459 B. DISCOIDEA Britton. Lake Sheridan.
1460 B. FRONDOSA L. (Beggar-Ticks.)

1461 B. COMOSA Wiegand. Eastern base of Campbell's Ledge.
1462 B. CONNATA Muhl. (Swamp Beggar-Ticks.) Lake Winola.
1463 B. CERNUA L. (Stick-Tight.) Elmhurst.
1464 B. LAEVIS BSP. Coxton. Common.
1465 B. BIPINNATA L. (Spanish Needles.)

GALINSOGA R. and P.

1466 G. PARVIFLORA Cav. Common.
1467 G. PARVIFLORA, VAR. HISPIDA DC. Common.

HELENIUM L. (Sneezeweed)

1468 H. NUDIFLORUM Nutt. Factoryville.
1469 H. AUTUMNALE L. Occasional along the Susquehanna.

ACHILLEA L. (Yarrow)

1470 A. MILLEFOLIUM L. (Common Yarrow or Milfoil.) Very common.

ANTHEMIS L. (Chamomile)

1471 A. COTULA L. (Mayweed.) Very common.
1472 A. ARVENSIS L. (Corn Chamomile.) Wyoming. Occasional.
1473 A. NOBILIS L. (Garden Chamomile.) An occasional escape.

MATRICARIA L. (Wild Chamomile)

1474 M. SUAVEOLENS Buchenau. (Pineapple-Weed.) Dunmore, Waverly.

CHRYSANTHEMUM L. (Ox-Eye Daisy)

1475 C. LEUCANTHEMUM, VAR. PINNATIFIDUM L. and L. (Ox-Eye or White Daisy.) A common weed pest.
1476 C. PARTHENIUM Bernh. (Feverfew.) Dunmore.
1477 C. BALSAMITA, VAR. TANACETOIDES Boiss. (Costmary.) Winola road from Factoryville.

TANACETUM L.

1478 T. VULGARE L. (Common Tansy.) Frequent.
1479 T. VULGARE, VAR. CRISPUM DC. Dunmore, Throop road, Waverly. Occasional.

ARTEMISIA L. (Wormwood)

1480 A. VULGARIS L. (Common Mugwort.) Near Nay Aug Park.
1481 A. BIENNIS Willd. Lackawanna Railroad yards, Scranton. Providence, *C. H. Scharar.*
1482 A. ANNUA L. Waverly.
1483 A. ABROTANUM L. (Southernwood.) Nicholson. Occasional escape.*
1484 A. PROCERA Willd. Nicholson. An occasional escape.*

TUSSILAGO L. (Coltsfoot)

1485 T. FARFARA L. Near Alford, Ashley planes. Rare.

ERECHTITES Raf. (Fireweed)

1486 E. HIERACIFOLIA Raf. Very common.

CACALIA L. (Indian Plantain)

1487 C. SUAVEOLENS L. Mocanaqua. Not common.
1488 C. ATRIPLICIFOLIA L. (Pale Indian Plantain.) Hunlock's Creek. Rare.

SENECIO L. (Groundsel, Ragwort, Squaw-Weed)

1489 S. VULGARIS L. Waverly. Becoming a pest.
1490 S. OBOVATUS Muhl. Spring Brook.
1491 S. AUREUS L. (Golden Ragwort.) Common.
1492 S. BALSAMITAE Muhl. Pocono Mountain, *Prof. Porter.*

ARCTIUM L. (Burdock)

1493 A. MINUS Bernh. (Common Burdock.) Very common

ECHINOPS L. (Globe Thistle)

1494 E. SPHAEROCEPHALUS L. M. B. Fuller's farm, Dalton. Factoryville, *George Griswold.*

CARDUUS L. (Plumeless Thistle)

1495 C. CRISPUS L. Hebrew Cemetery, Dunmore, *Prof. R. N. Davis.*

CIRSIUM Hill. (Common or Plumed Thistle)

1496 C. LANCEOLATUM Hill. (Common or Bull Thistle.) Very common.
1497 C. DISCOLOR Spreng. Frequent near Pittston.
1498 C. MUTICUM Michx. Monroe County.
1499 C. PUMILUM Spreng. (Pasture or Bull Thistle.) Common.
1500 C. ARVENSE Scop. (Canada Thistle.) Very common.

CENTAUREA L. (Star Thistle)

1501 C. CYANUS L. (Bachelor's Button.) A frequent escape.

CICHORIUM L. (Chicory)

1502 C. INTYBUS L. (Common Chicory.) Waverly, Factoryville. Occasional elsewhere.

KRIGIA Schreb. (Dwarf Dandelion)

1503 K. VIRGINICA Willd. Taylor woods, Dunmore, Elmhurst Boulevard. Frequent.
1504 K. AMPLEXICAULIS Nutt. (Cynthia.) Starlight, Stroudsburg, Campbell's Ledge. Not common.

LEONTODON L. (Hawkbit)

1505 L. AUTUMNALIS L. (Fall Dandelion, Arnica.) Linen farm, Waverly. Infrequent.

PICRIS L.

1506 P. HIERACIOIDES L. (Hawkweed Picris.) Stroudsburg, *Prof. Porter.*
1507 P. ECHIOIDES L. (Ox-Tongue.) North Blakely street, Dunmore.

TRAGOPOGON L. (Goat's Beard)

1508 T. PORRIFOLIUS L. (Salsify, Oyster Plant.) An occasional escape.
1509 T. PRATENSIS L. (Goat's Beard.) Has become quite widely distributed.

TARAXACUM Ludwig. (Dandelion)

1510 T. OFFICINALE Weber. (Common Dandelion.) Common everywhere.
1511 T. ERYTHROSPERMUM Andrz. (Red-Seeded Dandelion.) Monroe County, *Prof. Porter.*

SONCHUS L. (Sow Thistle)

1512 S. ARVENSIS L. (Field Sow Thistle.) Common.
1513 S. OLERACEUS L. (Common Sow Thistle.) Frequent.
1514 S. ASPER Hill. (Spiny-Leaved Sow Thistle.) Occasional.

LACTUCA L. (Lettuce)

1515 L. SCARIOLA L. (Prickly Lettuce.) Common throughout.
1516 L. CANADENSIS L. (Wild Lettuce, Horse-Weed.) Common.
1517 L. CANADENSIS, VAR. MONTANA Britton. Monroe Country, *Prof. Porter.*
1518 L. INTEGRIFOLIA Bigel. Elmhurst.
1519 L. HIRSUTA Muhl.
1520 L. VILLOSA Jacq. Mocanaqua.
1521 L. SPICATA Hitchc. Farm of C. S. Woolworth, near Lily Lake.

PRENANTHES L. (Rattlesnake-Root)

1522 P. RACEMOSA Michx. Gipsy Grove, Dunmore.
1523 P. ALBA L. (White Lettuce, Rattlesnake-Root.) Gipsy Grove, Dunmore.
1524 P. SERPENTARIA Pursh. (Lion's Foot.) Gipsy Grove, Dunmore.
1525 P. TRIFOLIOLATA Fernald. (Gall-of-the-Earth.) Gipsy Grove, Dunmore.
1526 P. ALTISSIMA L. Gipsy Grove, Dunmore.

HIERACIUM L. (Hawkweed)

1527 H. PILOSELLA L. (Mouse-Ear.) Near Lily Lake. Near Elk Mountain, *J. A. Graves.*
1528 H. AURANTIACUM L. (Orange Hawkweed, Devil's Paint-Brush.) This has become a great pest within recent years.
1529 H. PRATENSE Tausch. (King Devil.) Factoryville, Scranton Golf Grounds.
1530 H. VENOSUM L. (Rattlesnake-Weed.) Common.
1531 H. PANICULATUM L. Frequent.
1532 H. MARIANUM Willd. Penobscot, Wilkes-Barre Mountain.
1533 H. SCABRUM Michx. Frequent.
1534 H. CANADENSE Michx. Pocono Summit. Occasional elsewhere.

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